SERVICE MANUAL

Model Name : EP752_EP761_EP763

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2007/6/20	V1.0	Initial Issue
2007/7/6	V2.0	Add Appendix A and Appendix B
2007/8/8	V3.0	Add EP763
2007/11/7	V4.0	Modify Appendix B

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95.87M01GC0A; 95.87M01G00A; **95.87J01GC0A**; 95.87J01G00A; **95.87S01GC0A**;95.87S01GC01;95.87S01GC0B;95.87S01GC0C;95.87S01GC0E;95.87S01GC0H;95.87S01GC0J;95.87S01GC0K;95.87S01GC0L;95.87S01GC0T;95.87S01GK0C;

EP752 / EP761 Comparison List

EP752		EP761	
DC.87J01G001	D.C. EP752	DC.87M01G001	D.C. EP761
70.87J01G001	ASSY TYPE X ENGINE MODULE EP752	70.87M01G001	ASSY TYPE X ENGINE MODULE EP761
61.86V24G001	DMD HEATSINK3 AL X19	61.86V21G001	DMD HEATSINK2 AL X19
70.87J02G001	ASSY MB PCBA EP752	70.87M02G001	ASSY MB PCBA EP761
80.87J01G002	PCBA MAIN BD EN-TEK FOR EP752	80.87M01G003	PCBA MAIN BD2 ENTEK FOR EP761
70.87K03G001	ASSY X19 LVPS MODULE 230W EP752	70.87M03G001	ASSY X19 LVPS MODULE EP761
75.87J01G001	ASSY LVPS MATRITEK 200W EP752	75.87M01G001	ASSY LVPS MATRITEK 230W EP761
70.87U06G001	OSRAM O3 MID 200W LAMP DRIV-ER	70.87W09G001	PHILIPS VIDI 220W LAMP DRIVER
75.87J04G001	ASSY OSRAM LAMP DRIVER	75.87W01G001	ASSY PHILIPS LAMP DRIVER
39.87J03G001	OSRAM 6S W42 WAVEFORM	39.87M03G001	FW PHILIPS 6S W42 WAVEFORM
70.87K07G001	ASSY TOP COVER EP752	70.87M07G001	ASSY TOP COVER EP761
51.87K22G001	LAMP COVER EP752	51.87K22G011	LAMP COVER FOR EP761
70.87K08G001	ASSY BOTTOM COVER EP752	70.87M05G001	ASSY BOTTOM COVER EP761
75.87K05G001	ASSY BOTTOM COVER EP752	75.87M04G001	ASSY BOTTOM COVER EP761

EP752		**EP761**	
70.87K09G001	ASSY IO COVER EP752	70.87M06G001	ASSY IO COVER EP761
51.87K19G001	IO COVER EP752	51.87K19G011	IO COVER FOR EP761
51.87K24G001	OVERLAY PC EP752	51.87M05G001	OVERLAY PC EP761
70.86V08G001	ASSY LAMP MOD-ULE OSRAM 200W X1	70.86V09G001	ASSY LAMP MOD-ULE PHILIPS 220W
23.87J15G001	OSRAM P-VIP 200W/1.0 E20.6n	23.87M15G001	LAMP MODULE 220W 1.0 E20.6 PHI
52.83F12G001	LAMP RUBBER HD72		
61.83F12G001	LAMP CLAMP SUS301 t=0.3 HD72	61.86V18G001	LAMP FIX PLATE SUS301 X19
61.88506G001	LAMP BRACKET 2 SUS301 0.3t 220	61.86V17G001	LAMP FIX PUSH PLATE SUS301 X19
76.83M02G002	OUTSIDE W.A. 85/95mm #22 FLUBO	42.83F06G001	CABLE W.A. 2P #22 110mm BALLAS
61.86V04G002	LAMP HOLDER OS-RAM E20.6 AL X19	61.86V04G012	LAMP HOLDER PHILIPS E20.6 AL X

EP752 / EP763 Comparison List

EP752		EP763	
DC.87J01G001	D.C. EP752	DC.87S01G001	D.C. EP763
70.87J01G001	ASSY TYPE X ENGINE MODULE EP752	70.87S05G001	ASSY TYPE X ENGINE MODULE EP763
61.86V24G001	DMD HEATSINK3 AL X19	61.86V21G001	DMD HEATSINK2 AL X19
61.86V19G002	OFF LIGHT HEAT-SINK AL X19.	61.86V26G001	OFF LIGHT HEAT-SINK-2 AL X19
61.86V11G003	ROD FIX PLATE SUS301 X19	61.86V11G002	ROD FIX PLATE SUS301 X19
70.87J02G001	ASSY MB PCBA EP752	70.87S06G001	ASSY MB PCBA EP763
80.87J01G002	PCBA MAIN BD EN-TEK FOR EP752	80.87S01G001	PCBA MAIN BD EN-TEK FOR EP763
70.87K03G001	ASSY X19 LVPS MODULE 230W EP752	70.87S01G001	ASSY X19 LVPS MODULE EP763
75.87J01G001	ASSY LVPS MATRITEK 200W EP752	75.88A02G001	ASSY LITEON LVPS 260W XD1281
70.87K04G001	ASSY LAMP DRIV-ER OSRAM 230W EP	70.87S02G001	ASSY LAMP DRIV-ER EP763
75.87J04G001	ASSY OSRAM LAMP DRIVER 200W	75.87S01G001	ASSY PHILIPS 260W LAMP DRIVER
70.87K06G001	ASSY BLOWER 5020 EP752	70.87S07G001	ASSY BLOWER 5020 EP763
49.87J02G002	SUN GB1205PKV4-AY 50*20mm BLOW	49.83F02G001	SUNON 50*20 LAMP BLOWER H72

EP752		**EP763**	
70.87K07G001	ASSY TOP COVER EP752	70.87M07G001	ASSY TOP COVER EP761
51.87K22G001	LAMP COVER EP752	51.87K22G011	LAMP COVER FOR EP761
70.87K08G001	ASSY BOTTOM COVER EP752	70.87M05G001	ASSY BOTTOM COVER EP761
75.87K05G001	ASSY BOTTOM COVER EP752	75.87M04G001	ASSY BOTTOM COVER EP761
70.87K09G001	ASSY IO COVER EP752	70.87M06G001	ASSY IO COVER EP761
51.87K19G001	IO COVER EP752	51.87K19G011	IO COVER FOR EP761
51.87K24G001	OVERLAY PC EP752	51.87M05G001	OVERLAY PC EP761
70.87K10G001	ASSY SYSTEM SUPPORT SHIELD-ING	70.87S04G001	ASSY SYSTEM SUPPORT SHIELD-ING
75.87K01G002	ASSY SYSTEM SUPPORT SHIELD-ING	75.87S02G002	ASSY SYSTEM SUPPORT SHIELD-ING
51.87J07G001	MYLAR FOR INLET CUT EP752	51.87H20G002	FILTER HOUSING P5260
70.86V08G001	ASSY LAMP MOD-ULE OSRAM 200W X1	70.86V28G001	ASSY LAMP MOD-ULE PHILIPS-260W
23.87J15G001	OSRAM P-VIP 200W/1.0 E20.6n	23.87S15G001	PHILIPS 260W 1.0 E20.6
52.85902G012	LAMP CONTACT COVER RUBBER 300	52.87S01G001	AIR FILTER EP763

EP752		**EP763**	
61.83F12G001	LAMP CLAMP SUS301 t=0.3 HD72	61.86V18G001	LAMP FIX PLATE SUS301 X19
61.88506G001	LAMP BRACKET 2 SUS301 0.3t 220	61.86V17G001	LAMP FIX PUSH PLATE SUS301 X19
61.86V06G002	BLOWER DUCT OSRAM E20.6 AL X19	61.86V25G001	BLOWER DUCT PHILIPS 260W
61.83M17G011	LAMP LIGHT CUT X19	75.86V01G001	BUY ASSY LAMP LIGHT CUT X19
61.86V04G003	LAMP HOLDER OS-RAM E20.6 AL X1	61.86V04G013	LAMP HOLDER PHILIPS E20.6 AL
35.86V02G001	LAMP WARNING LABEL OSRAM 200W	35.82G02G001	LAMP WARNING LABEL PC EP7190
43.87J01G002	THERMAL SWITCH WITH BRACKET (K	43.87S01G001	THERMAL SWITCH WITH BRACKET (K
41.80T06G001	EMI GASKET W7*H7*L70	41.82H02G001	EMI GASKET W5*H5*L77
61.87H02G002	LVPS BRACKET AL 230W P5260	61.87H05G002	LVPS BRACKET 260W P5280
51.87K28G002	MYLAR FOR LVPS EP752	51.87S01G002	MYLAR FOR LVPS EP763

Preface

This manual is applied to EP752/EP761/EP763 projection system.
The manual gives you a brief description of basic technical information to help in service and maintain the product.

Your customers will appreciate the quick response time when you immediately identify problems that occur with our products. We expect your customers will appreciate the service that you offer them.

This manual is for technicians and people who have an electronic background. Please send the product back to the distributor for repairing and do not attempt to do anything that is complex or is not mentioned in the troubleshooting.

Notice:
The information found in this manual is subject to change without prior notice. Any subsequent changes made to the data herein will be incorporated in future edition.

EP752/EP761/EP763 Service Manual
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Manual Version 4.0

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Chapter 1

Introduction

1-1 Highlight

No	Item	Description
1	Dimensions (W x H x D)	- 295.0 x 95.7 x 222.0 mm
2	Contrast ratio	- Engineering typical: 1700:1 - Engineering minimum: 1300: full on/full off
3	Uniformity	- Engineering typical: 80% - Engineering minimum: 70%
4	Power Supply	- 100V ~ 240V +/- 10% 50/60Hz
5	Power consumption	- EP752: 280W(Maximum). Standby mode -<10 Watt - EP761: 305W(Maximum). Standby mode -<10 Watt - EP763: 360W (Maximum). Standby mode - < 10 Watt
6	Color Wheel	- 6 Segment RYGCWB, 2x
7	Displayable colors	- 16.7 million colors 256 shades of gray
8	Lamp Type	- EP752: 200 watt lamp with Photocatalysis mesh (O2 Air) - EP761: 220 watt lamp with Photocatalysis mesh (O2 Air) - EP763: 260 watt lamp with Photocatalysis mesh (O2 Air)
9	Aspect Ratio	- 4:3, 16:9 with support for 5:4 and 1.78:1 (anamorphic DVD & HDTV)

No	Item	Description
10	Requested Noise Targets	- EP752: 34dB in Bright mode and 29dB in STD mode (typical) - EP761: 34dB in Bright mode and 30dB in STD mode (typical) - EP763: 38dB in Bright mode and 35dB in STD mode (typical)
11	Keystone Correction	- +/- 16 Vertical
12	Throw ratio	- 1.95 ~ 2.15 :1distance/width (+3%, -3%)
13	Horizontal Scan Rate	- 31.5kHz to 100kHz
14	Vertical Scan Rate	- 47Hz to 85Hz
15	Input/Output connections	• 2x D-Sub 15 pin connector for analog RGB/component video/HDTV and supports SCART RGB signal (via an adapter for Europe only) • 1x mini-din 4 pin connector for S-Video • 1x DVI-I (connector) (accept DVI-D signal) with HDCP • 1x composite RCA-type connector • 1x One mini-Din 3 pin connector for RS232 • 1x USB port for remote mouse • 4x Audio In • 1x D-Sub 15 pin connector for VGA Signal Out • 1 x Audio Out • 1x 12V trigger • 1x 5V trigger (for external wireless dongle)
16	Speaker	- 1x 2W Speaker
17	Video compatibility	- NTSC: M (3.58MHz), 4.43 MHz, 480i/p @60Hz - PAL: B, D, G, H, I, M, N, 576i/p @50Hz - SECAM: B, D, G, K, K1, L - HDTV: 480p, 576p, 720p, 1080i (50/60 Hz)
18	Temperature	- Operating: 5 - 40°C (40°C support only in ECO mode) 40°C support in STD (ECO) mode 35°C Support in Bright mode - Storage: -20- to + 60°C

No	Item	Description
19	Projection distance	- 1.5m to 12m, best display at 60”
20	Indicator Lights	- Power (Bi-color): Amber: Standby (Projector off) Green: Normal (Projector on) Flash Green: Warm up (Go to Normal mode) Flash Amber: Cooling down (Go to Standby mode) - Error Indication : Lamp : Red (Flash red if fan-locked) Temp : Red
21	DMD	- Single 0.55” XGA type X DMD chip DDP2230
22	Resolution	- 1024 x 768
23	Brightness	For EP752: - Engineering typical : 2300 lumens - Engineering minimum: 1950 lumens
		For EP761: - Engineering typical : 2600 lumens - Engineering minimum: 2200 lumens
		For EP763: - Engineering typical : 2900 lumens - Engineering minimum: 2450 lumens

1-2 Compatible Mode

Analog

Mode	Resolution	V-Sync (Hz)	Horiz.Freq.(KHz)
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7

Mode	Resolution	V-Sync (Hz)	Horiz.Freq.(KHz)
WXGA*	1280x720	60	60
	1280x720	70	56.5
	1280x720	75	67.5
	1280x720	85	68.7
WXGA	1280x768	60	48.4
	1280x768	70	56.5
	1280x768	75	67.5
SXGA	1280x1024	60	63.98
	1280x1024	75	79.98
SXGA+	1400x1050	60	63.98
UXGA	1600x1200	60	75

Digital

Mode	Resolution	V-Sync (Hz)	Horiz.Freq.(KHz)
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9

Mode	Resolution	V-Sync (Hz)	Horiz.Freq.(KHz)
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
WXGA*	1280x720	60	60
	1280x720	70	56.5
	1280x720	75	67.5
	1280x720	85	68.7
WXGA	1280x768	60	48.4
	1280x768	70	56.5
	1280x768	75	67.5
SXGA	1280x1024	60	63.98

Chapter 2

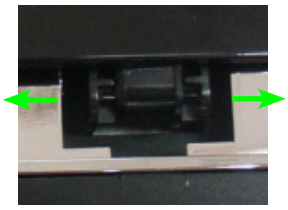
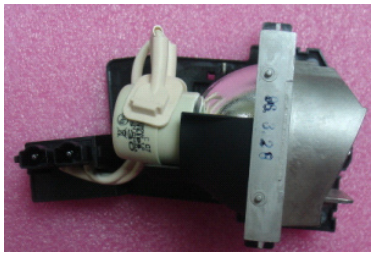
Disassembly Process

2-1 Equipment Needed & Product Overview

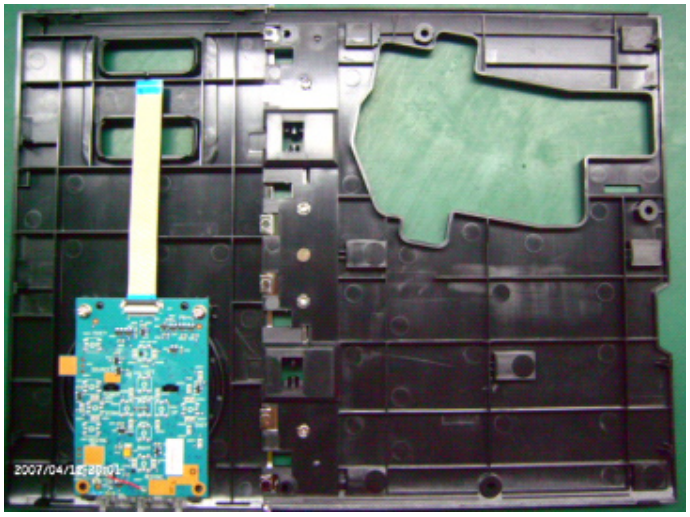
Item	Photo	Item	Photo
Screw Bit (+) :107		Hex Sleeves 5mm	
Hex Sleeves 8mm		Tweezers	
Pincers		Screw Bit (-)	

Front Side		Back Side	
Top Side		Bottom Side	
Left Side		Right Side	

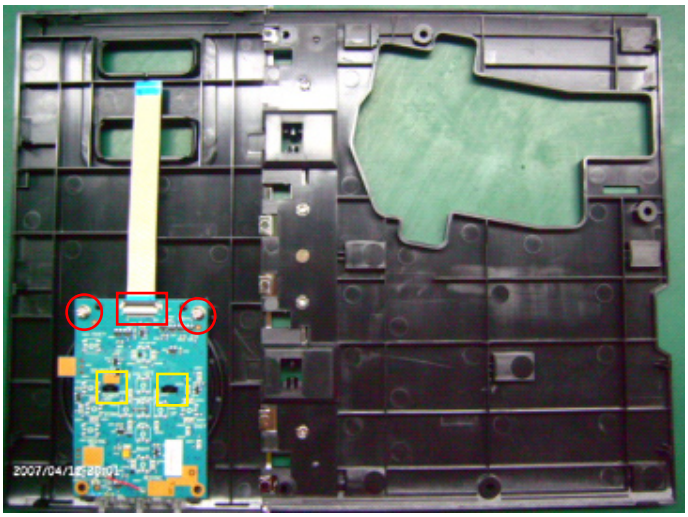
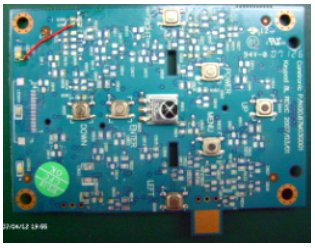
2-2 Disassemble Lamp Module

No	Procedure	Photo
1	(1) Release two tenons by Tweezers (as red square) (2) Disassemble Lamp Cover	 Lamp Cover  Note: Release the both side tenons as the arrow show.Then pull out the Lamp Cover.
2	(1) Unscrew 2 screws (as red circle) (2) Disassemble Lamp Module	  Lamp Module

2-3 Disassemble Top Cover Module

No	Procedure	Photo
1	(1) Unscrew 5 screws (as red circle) (2) Disassemble Top cover module	  Top cover module

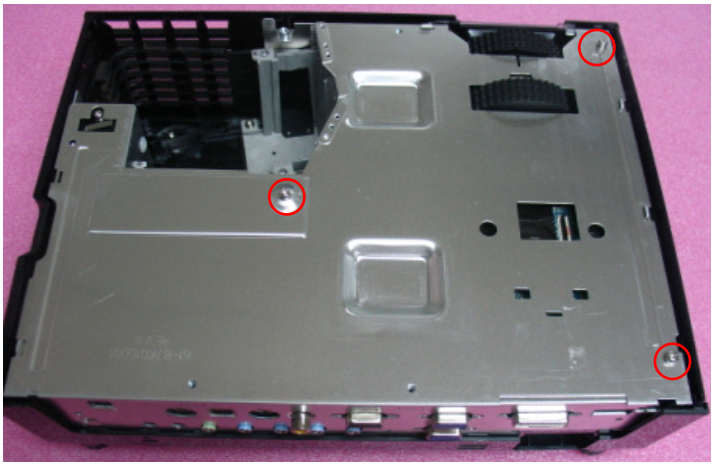
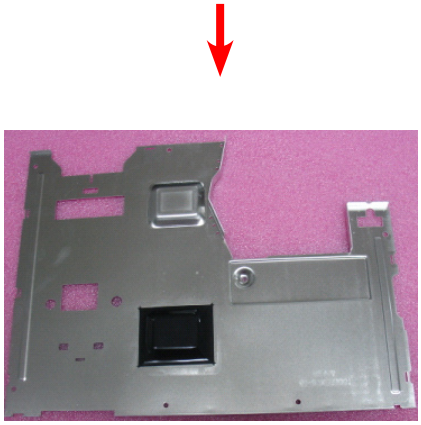
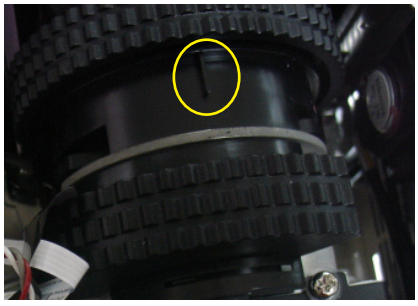
2-4 Disassemble Keypad Board, Keypad and FPC cable

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Release 2 tenons (as yellow square) (3) Unplug 1 connector (as red square) (4) Disassemble Keypad Board, Keypad and FPC cable.	 Keypad  Keypad Board Keypad FPC Cable

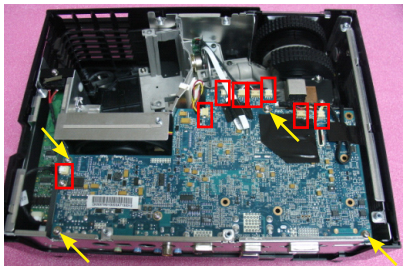
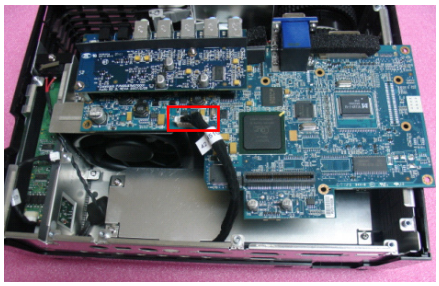
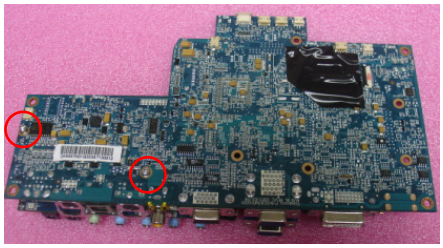
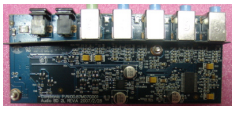
2-5 Disassemble Rear Cover

No	Procedure	Photo
1	(1) Unscrew 8 hex screws (as red circle) (2) Disassemble Rear Cover	 Rear Cover

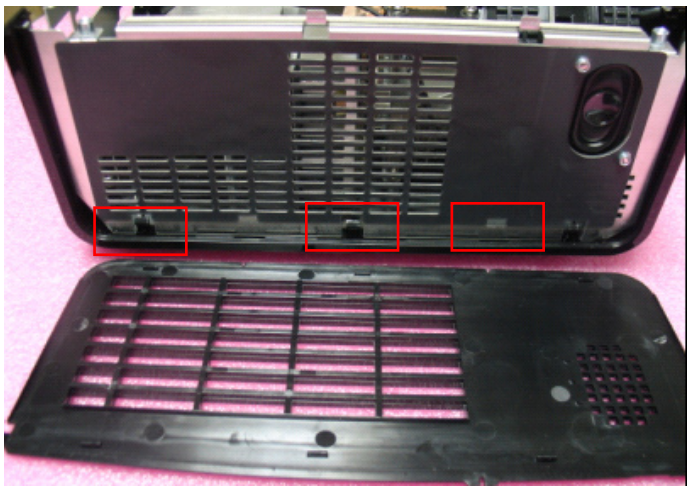
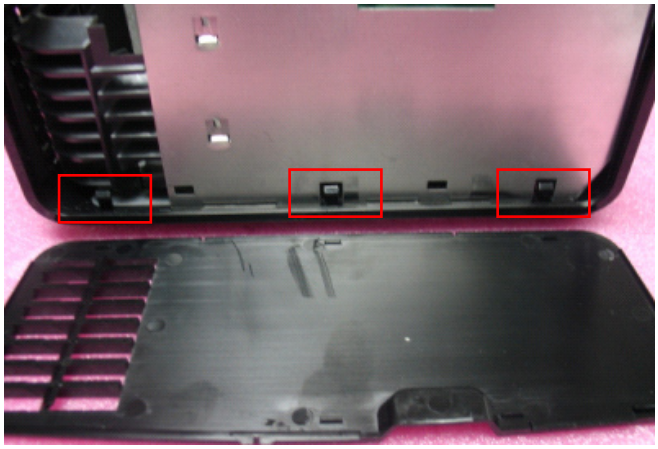
2-6 Disassemble Top Shielding

No	Procedure	Photo
1	(1) Unscrew 3 screws (as red circle) (2) Disassemble Top Shielding Note: The place as yellow circle should match with the fillister of the focus ring.	  Top Shielding 

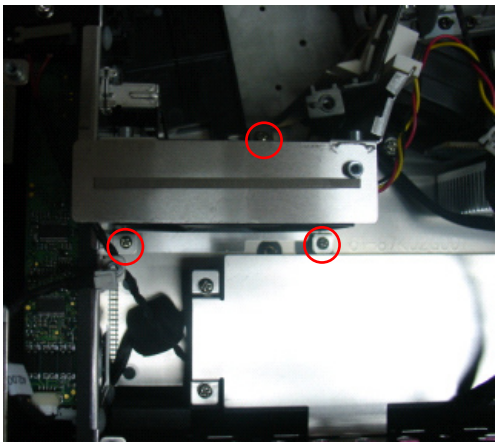
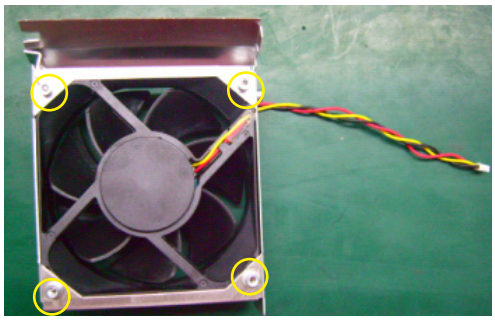
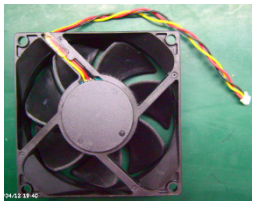
2-7 Disassemble Main Board Module and Audio Board Module

No	Procedure	Photo
1	(1) Take off Mylar directly. (2) Unscrew 4 screws (as yellow arrow) (3) Unplug 9 connectors (as red square) (4) Unscrew 2 screws (as red circle) (5) Disassemble Audio Board Module and Main Board Module.	 Mylar     Audio Board Main Board

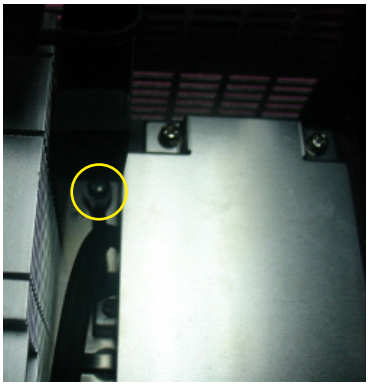
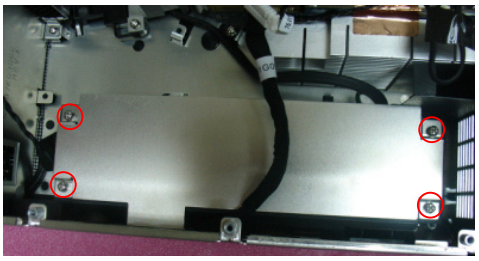
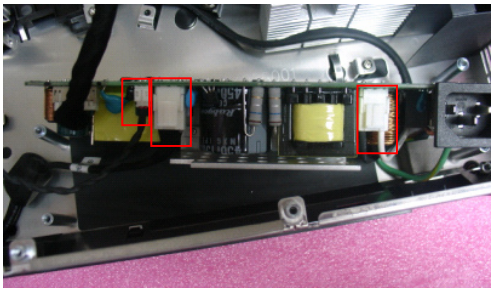
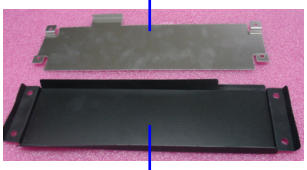
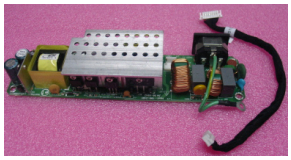
2-8 Disassemble Left Cover and Right Cover

No	Procedure	Photo
1	(1) Release 3 tenons on the left side. (as red square) (2) Disassemble Left Cover. (3) Release 3 tenons on the right side. (as red square) (4) Disassemble Right Cover.	 Left Cover  Right Cover

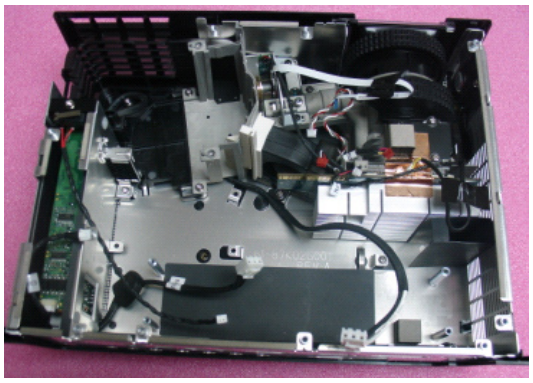
2-9 Disassemble Fan Module

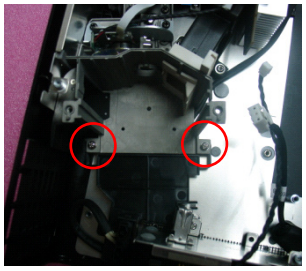
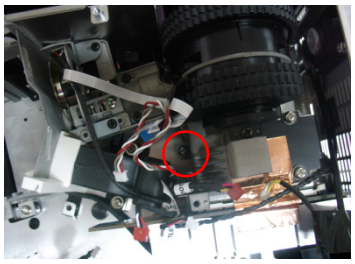
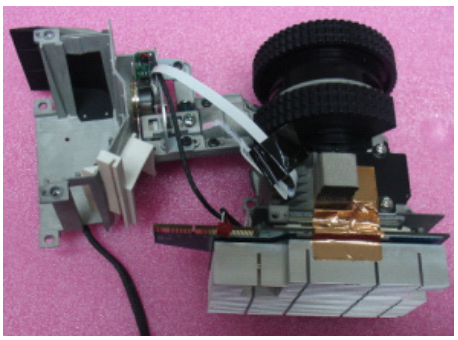
No	Procedure	Photo
1	(1) Unscrew 3 screws (as red circle) (2) Disassemble Fan Module. (3) Unscrew 4 screws (as yellow circle) (4) Disassemble Fan and Bracket.	   Fan Bracket

2-10 Disassemble LVPS Module

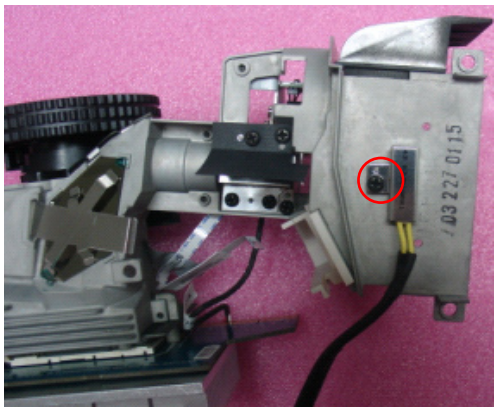
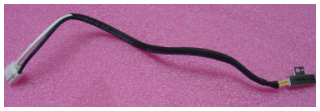
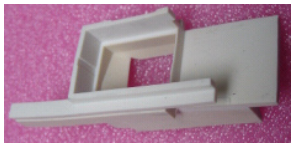
No	Procedure	Photo
1	(1) Unscrew 1 ground screw (as yellow circle) (2) Unscrew 4 screws (as red circle) (3) Unplug 3 connectors (as red square) (4) Disassemble LVPS Module	   LVPS Bracket  Mylar  LVPS

2-11 Disassemble Engine Module

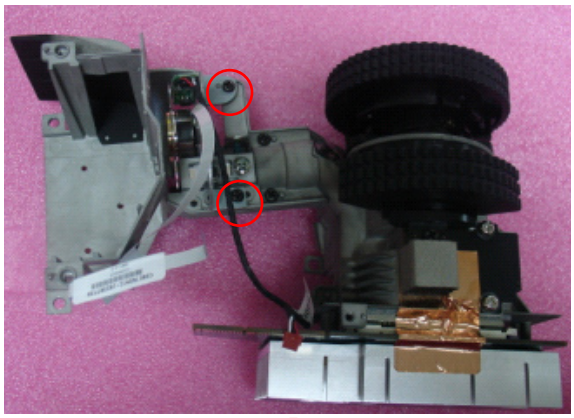
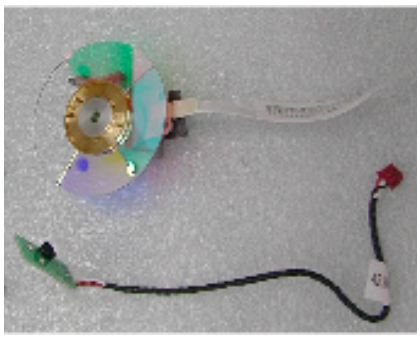
No	Procedure	Photo
1	(1) Unscrew 1 screw (as red circle) (2) Disassemble Inner Mask	 Inner Mask

No	Procedure	Photo
2	(1) Unscrew 4 screws (as red circle) (2) Disassemble Engine Module	   Engine Module

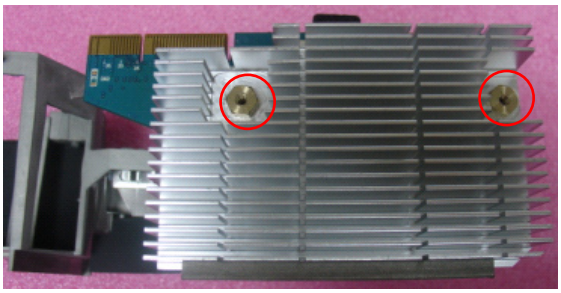
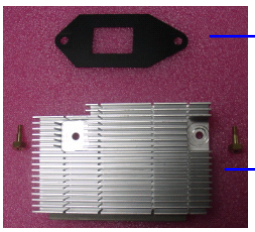
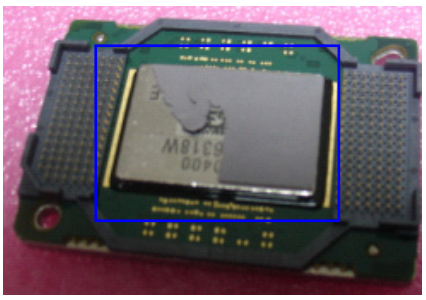
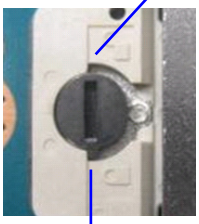
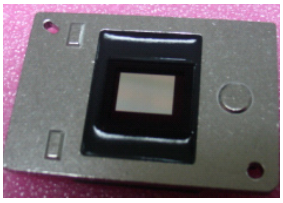
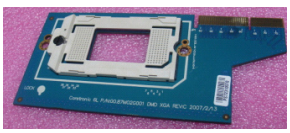
2-12 Disassemble Thermal Switch, Blower dcut rubber

No	Procedure	Photo
1	(1) Unscrew 1 screw to disassemble Thermal Switch. (as red circle) (2) Disassemble Blower duct rubber	  Thermal Switch  Blower Duct Rubber

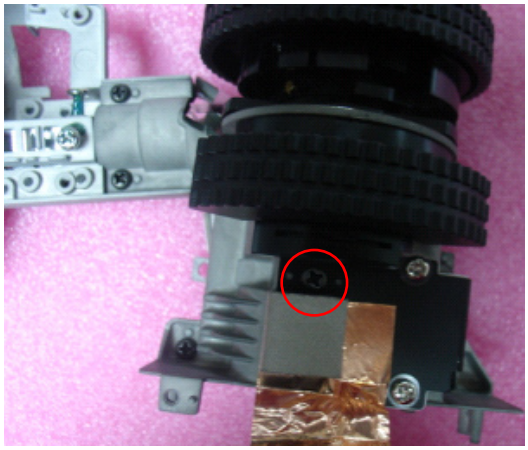
2-13 Disassemble Color Wheel and Photo Sensor Board

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Disassemble Color Wheel Module (3) Unscrew 1 screw (as blue circle) (4) Disassemble Color Wheel and Photo Sensor Board	  Color Wheel & Photo Sensor Board

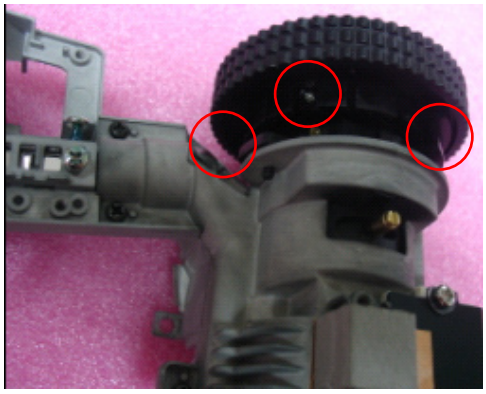
2-14 Disassemble DMD Chip and DMD Board

No	Procedure	Photo
1	(1) Unscrew 2 screws to disassemble Heatsink and Support Rubber. (as red circle) (2) Make the screw on DMD Board to “Unlock” as the picture “A” show. (3) Disassemble DMD Chip and DMD Board. Note: Remove thermal pad carefully and stick a new one if the thermal pad broken.	  Support Rubber Heatsink Picture “A” Unlock   Lock  DMD Chip  DMD Board

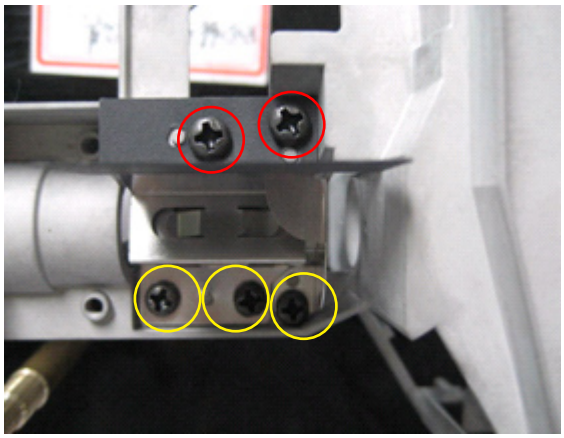
2-15 Disassemble Zoom Ring

No	Procedure	Photo
1	(1) Unscrew 1 screw (as red circle) (2) Disassemble Zoom Ring	 Zoom Ring

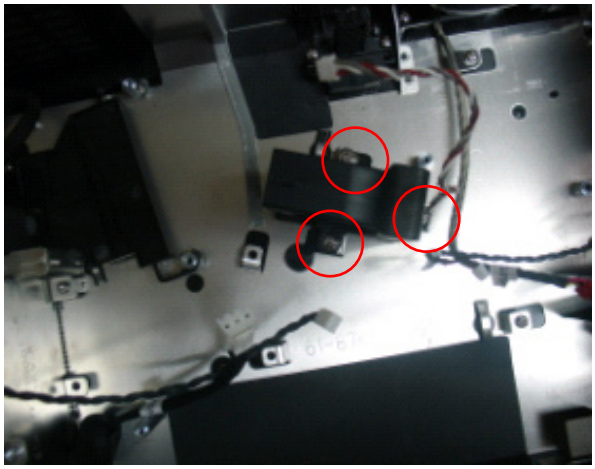
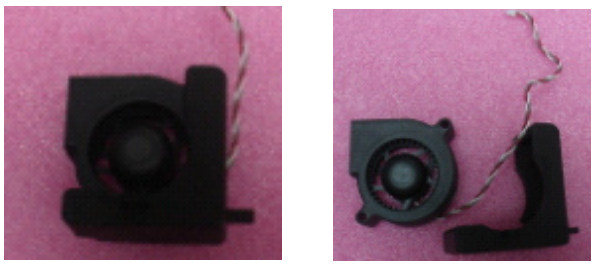
2-16 Disassemble Focus Ring

No	Procedure	Photo
1	(1) Unscrew 3 screws (as red circle) (2) Disassemble Focus Ring	 Focus Ring

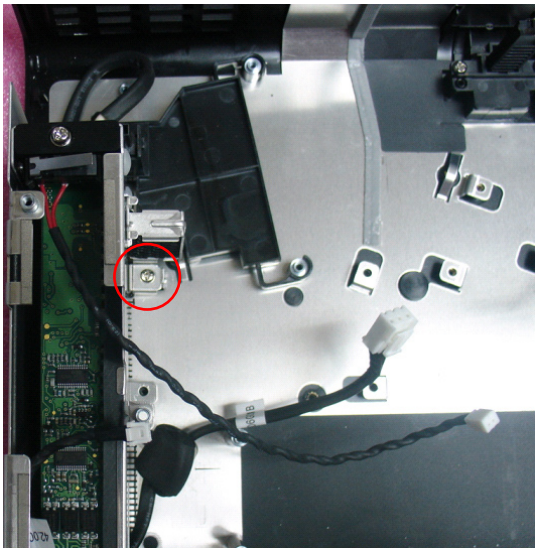
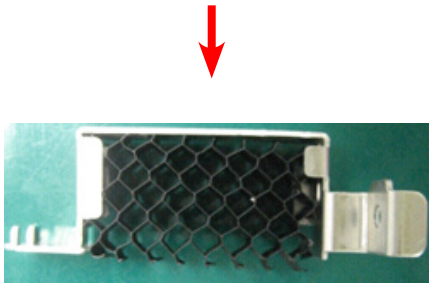
2-17 Disassemble ROD Module

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Take off Mylar (3) Unscrew 3 screws (as yellow circle) (4) Disassemble ROD module	 ROD Mylar ROD Spring Support

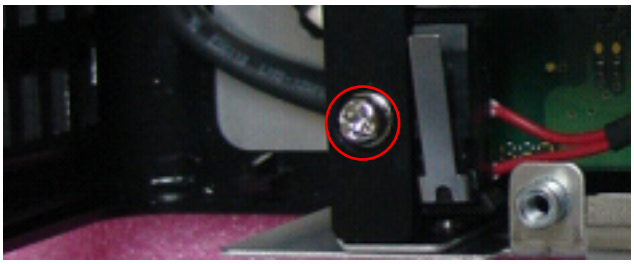
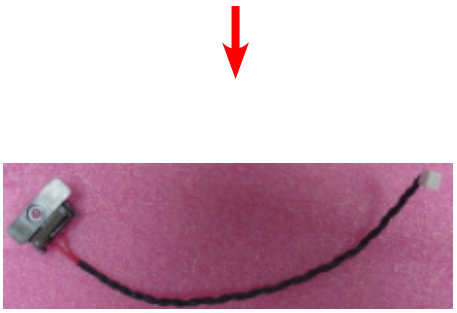
2-18 Disassemble Blower Module

No	Procedure	Photo
1	(1) Unscrew 3 screws (as red circle) (2) Disassemble Blower module	  Blower

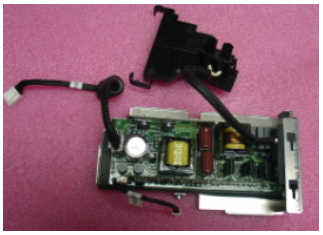
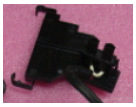
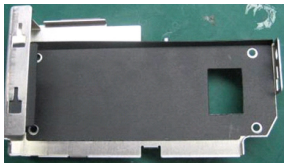
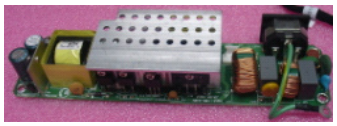
2-19 Disassemble Honeycombed

No	Procedure	Photo
1	(1) Unscrew 1 screw (as red circle) (2) Disassemble Honeycombed	  Honeycombed

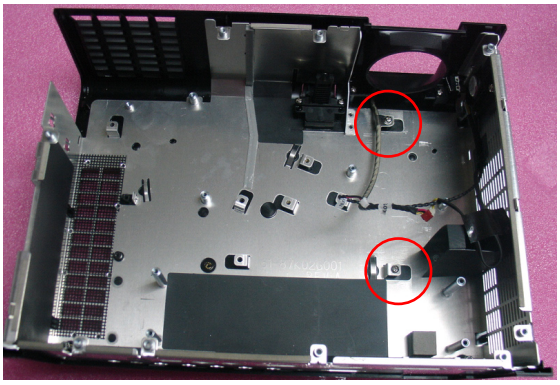
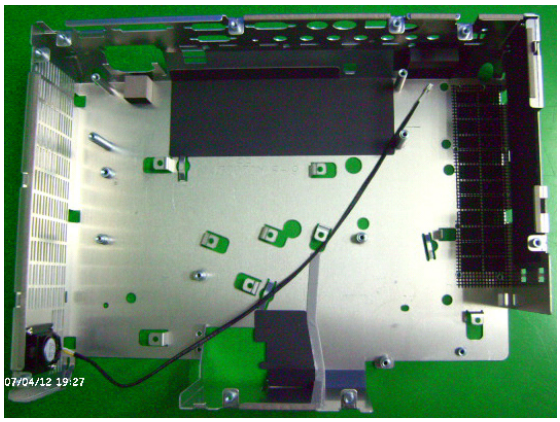
2-20 Disassemble Limit Switch

No	Procedure	Photo
1	(1) Unscrew 1 screw (as red circle) (2) Disassemble Limit Switch	  Limit Switch

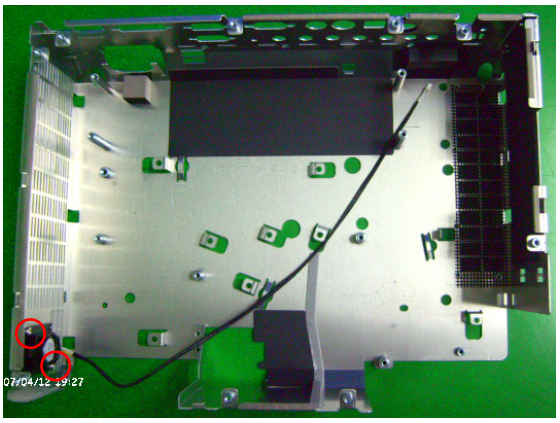
2-21 Disassemble Engine Mask Plat and Lamp Driver

No	Procedure	Photo
1	(1) Unscrew 1 screw (as red circle) (2) Disassemble Engine Mask Plat and Lamp Driver.	  Cable  Engine Mask Plat Cable  Lamp Driver Bracket  Lamp Driver

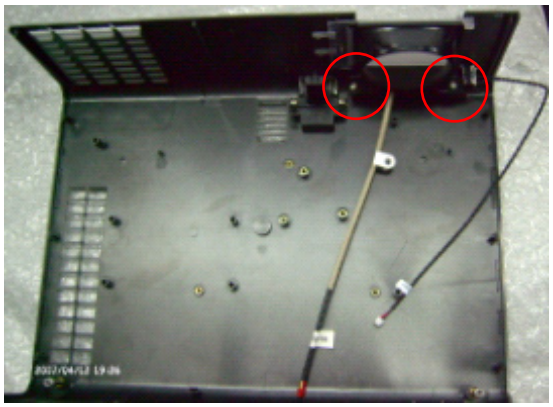
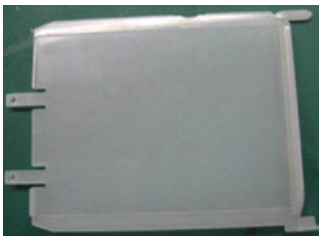
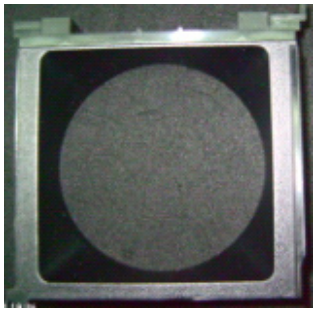
2-22 Disassemble System Support Shielding Module

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Disassemble System Support Shielding Module.	  System Support Shielding Module

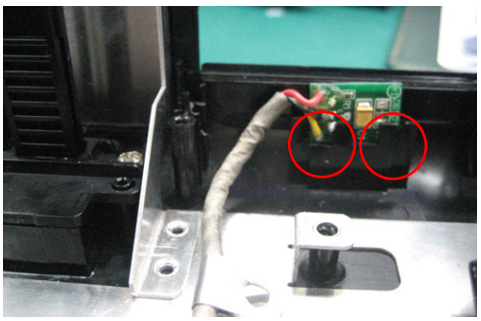
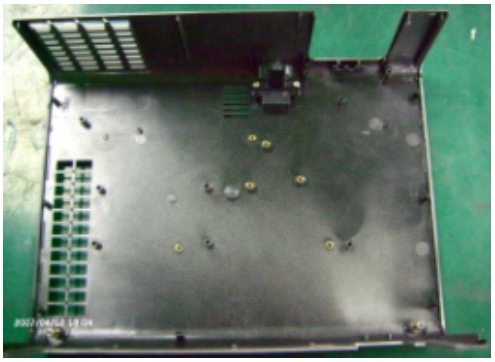
2-23 Disassemble Speaker

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Disassemble Speaker.	 Speaker

2-24 Disassemble Lens Case, Lens Door, Lens Door Switch

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Disassemble Lens Case, Len Door, Lens Door Switch.	  Lens Door  Lens Case Lens Door Switch

2-25 Disassemble IR Board, IR Lens

No	Procedure	Photo
1	(1) Unscrew 2 screws (as red circle) (2) Disassemble IR Board, IR Lens.	 IR Board IR Lens 

Chapter 3

Troubleshooting

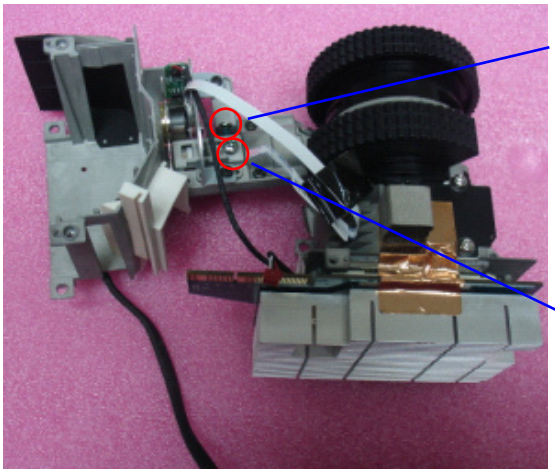
3-1 LED Lighting Message

EP752/EP761/EP763 LED	Lamp _LED (Orange)	Power_LED (Green/Amber)	Temp_LED (Red)
Standby State (Input power cord)	OFF	Flashing 1 sec. on, 1 sec. off	OFF
Power on, (press power button)	OFF	ON	OFF
Lamp lighting	OFF	ON	OFF
Thermal sensor error (T>=44^{0}C) OSD shows red “Over Temperature”	OFF	ON	ON
Fan lock error OSD shows red “Fan Fail”	OFF	ON	Flashing 0.5 sec. on, 0.5 sec.off
Lamp error (Lamp, ballast, or color wheel fail)	ON	ON	OFF
Pre-cooling	OFF	ON	OFF
Power off (Cooling)	OFF	ON	OFF

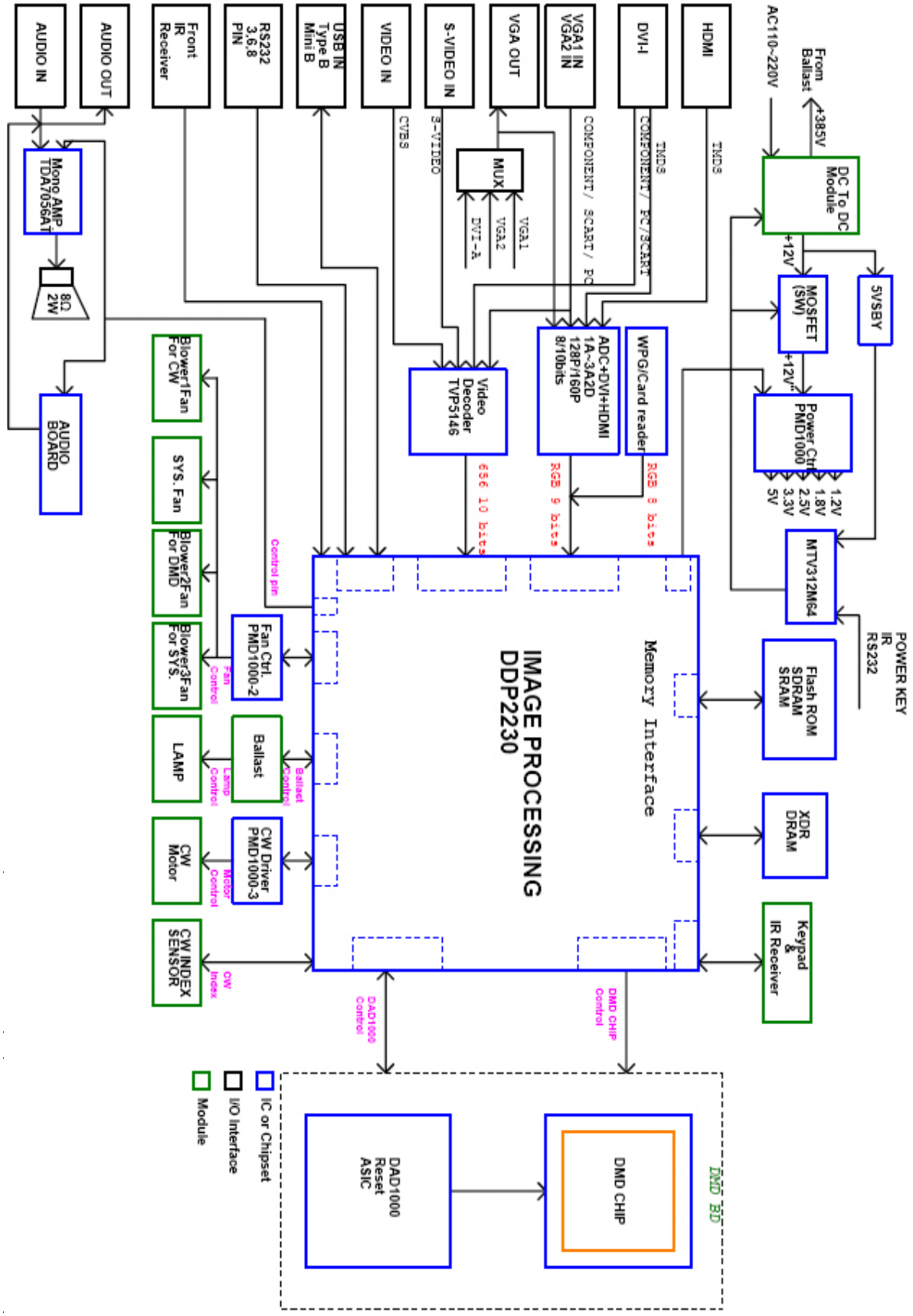
3-2 Main Procedure

No	Symptom	Procedure
1	No Power	- Ensure the Power Cord and AC Power Outlet are securely connected - Check Lamp Cover and Interrupt Switch - Ensure all connectors are securely connected and aren't broken - Check Lamp Driver - Check LVPS - Check Main Board
2	Auto Shut Down	- Check LED Status a. Lamp LED Light - Check Lamp - Check Lamp Driver - Check Main Board b. Temp LED Light - Check Thermal Sensor - Check Thermal Switch - Check Fan c. Color Wheel - Check Color Wheel - Check Photo Sensor
3	No Image	- Ensure the Signal Cable and Source work (If you connect multiple sources at the same time, use the "Source" button on the control panel to swtich) - Ensure all connectors are securely connected and aren't broken - Check Main Board - Check DMD Board - Check Color Wheel - Check DMD Chip - Check Engine Module

No	Symptom	Procedure
4	No Light On	- Ensure all connectors are securely connected and aren't broken - Check Lamp Module - Check Lamp Driver - Check LVPS - Check Main Board
5	Mechanical Noise	- Check Color Wheel - Check Fan Module
6	Line Bar / Line Defect	- Check if the Main Board and the DMD Board are assembled properly - Check DMD Board - Check DMD Chip - Check Main Board
7	Image Flicker	- Do "Reset" of the OSD Menu - Ensure the Signal Cable and Source work - Clean Photo Sensor Board - Check Lamp Module - Check Color Wheel - Check DMD Board - Check Main Board
8	Color Abnormal	- Do "Reset" of the OSD Menu - Adjust Color Wheel Index - Check Main Board - Check DMD Board - Check Color Wheel
9	Poor Uniformity / Shadow	- Ensure the Projection Screen without dirt - Ensure the Projection Lens is clean - Ensure the Brightness is within spec. (Replace the Lamp if the Brightness is less than spec.) - Check Engine Module
10	Dead Pixel / Dust (Out of spec.)	- Ensure the Projection Screen without dirt - Ensure the Projection Lens is clean - Clean DMD Chip and Engine Module - Check DMD Chip - Check Engine Module
11	Garbage Image	- Ensure the Signal Cable and Source work - Check Main Board - Check DMD Board

No	Symptom	Procedure
12	Remote Controll or Control Panel Failed	- Remote Control a. Check Battery b. Check Remote Control c. IR Receiver - Control Panel a. Check FPC b. Check Keypad c. Check Main Board
13	Function Abnormal	- Do “Reset” of the OSD Menu - Check Main Board - Check DMD Board
14	Rod Adjustment	- If there are shadow at “TOP” & “Bottom”side of the screen, adjust “Screw 1” to adjust ROD position - If there are shadow / yellow light / blue light at “Left” & “Right” side of the screen, adjust “Screw 2” to adjust ROD position - “Screw 1” should be adjusted first, and then “Screw 2”  Note: To avoid over adjust the rod. After the operation, please use the mucilage to fixed the screw.

3-3 System Block Diagram



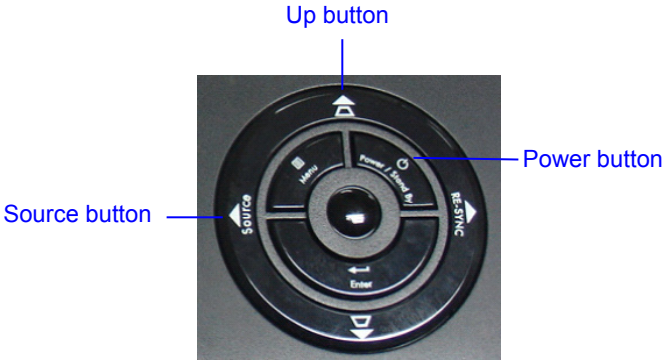
Function Test & Alignment Procedure

4-1 Test Equipment Needed

- IBM PC with XGA resolution (Color Video Signal & Pattern Generator)
- DVD player with Multi-system, equipped “Component”, “S-Video” and “Composite”
- Minolta CL-100
- Quantum Data 802B or CHROMA2327
- After changing parts, check the information below.

Charge Parts/ Update	Version Update	Color Wheel Index	PC Calibration	Video Calibration	Reset Lamp Use Time	Factory Reset	EDID
M/B	v	v				v	v
FW	v	v				v	
Color Wheel		v					
Lamp Module					v		

4-2 Service Mode

No	Step
1	(1) Turn on the Projector. (2) Press “Power”, “Source”, “Source” and “Up” button sequentially. (3) Service Mode will be shown. (4) Choose “Exit” to leave the Service Mode after all. 

4-3 Test Condition

- Circumstance Brightness : Dark room less than 5 lux.
- Inspection Distance : 1.8m~2.5m for functional inspection
- Screen Size : 60 inches diagonal (wide)
- After repairing each EP752/EP761/EP763, the unit should be Run-in (Refer to the table below).

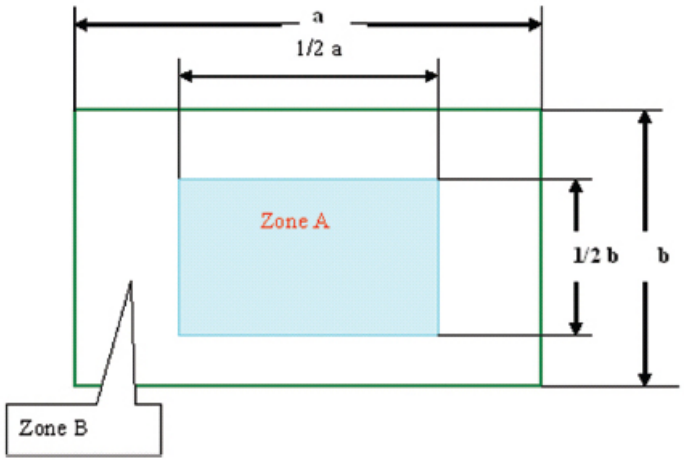
Symptom	Run-in Time
Normal Repair	2 Hours
NFF	4 Hours
Auto Shutdown	6 Hours

- Enter Burn-In Mode

** Cycle setting is based on the defect symptoms. ie: If it is NFF, the run-in time is 4 hours. You have to set the lamp on for 50min. and lamp off for 10 min for 4 cycles.*

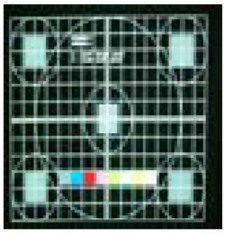
Press power > Source > Source > up	
Choose Burn-In Test > enter	
Lamp On (Min)	Press right key to adjust the time (50)
Lamp Off (Min)	Press right key to adjust the time (10)
Set burn in cycle	Press right key to adjust the cycle
After setting up the time, choose Burn-In mode and hit enter	

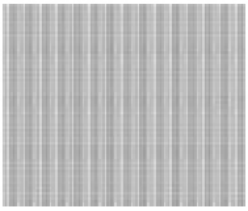
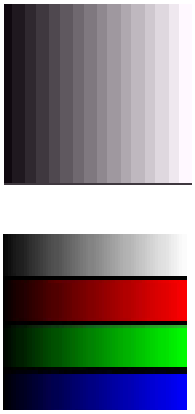
Screen Defects (While replacing DMD Chip, DMD BD and MB)



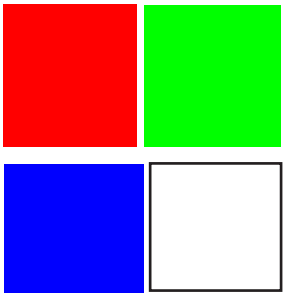
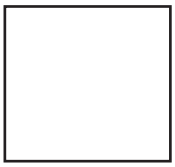
< Figure: Zone A & B Definition >

4-4 Inspection Procedure

No	Step	Specification	Procedure	Photo
1	Frequency and Tracking	Eliminate visual wavy noise by Rsync, Frequency or Tracking selection.	- Test Signal : 1024x768@60Hz - Test Pattern : PANA ICON - check and see if image sharpness and focus are well-performed. - If not, re-adjust by the following steps: (1) Select “Frequency” function to adjust the total pixel number of pixel clock in one line period. (2) Then, select “Tracking” function and use right or left arrow key to adjust the vgalue to minimize video flicker.	
2	Boundary	Horz. And Vert. position of video should be adjustable to be the screen frame.	- Test Signal : 1024x768@60Hz - Test Pattern : General - Adjust Resync or Frequency / Tracking / H. Position / V. Position to the inner of the screen.	

No	Step	Specification	Procedure	Photo
3	Focus	The text in the corner should be clear after adjust the focus ring.	- Test Signal : 1024x768@60Hz - Test Pattern : Fullscreen - Adjust the center clearly; meanwhile, one slightly vague corner in the image is allowed.	
4	Color Performance	Color appears normal. Color levels should be sufficient and normal.	- Test Signal : 1024x768@60Hz - Test Pattern : Gray 16 & 64 RGBW scale - Please check and ensure if each color is normal and distinguishable. - If not, please adjust color index of the Engineering Mode.	

No	Step	Specification	Procedure	Photo
5	Screen Uniformity	Should be compliant with 70%.(Minimum)	- Test Signal : 1024x768@60Hz - Test Pattern : Full White Pattern - Please check and ensure the unit is under the spec. - Please check and see if it's in normal conidtion. - If not, please return the unit to repair area.	
6	Light Leak	The unit can't accept the leak-age is brighter than Gray 30 patterns	- Test Signal : 1024x768@60Hz - Test Pattern : Gray 30 Patterns - Please check and see if the light leaks ***Note*** - The unit cannot accept the leakage is brighter than Gray 30 Patterns Note: Light leak on reflective edge, eyecatcher, bond wires and exposed metal.	 Gray 30 patterns

No	Step	Specification	Procedure	Photo
7	R, G, B and White Color Perfor-mance	Each R, G, B color should be normal without color abnormal issue.	- Test Pattern : R, G, B and White Color	
8	Dead Pixel (Bright pixel)	Cannot accept any bright pixel	- Test Pattern : Full Black	
	Dead Pixel (Dark pixel)	The numbers of dead pixel should be small-er or amount to 6 pixels.	- Test Pattern : Full White	
9	Blem-ish (Bright)	The bright blem-ish cannot be accepted if the problem appear with Gary 30 patterns	- Test Pattern : Gray 30	
10	Blem-ish (Dark)	The dark blem-ish cannot be accepted if the problem appear with Blue 60 patterns.	- Test Pattern : Blue 60	

Chapter 5

Firmware Upgrade

5-1 Equipment Needed

Software : (DDP 2230- USB)

- DLP Composer Lite V7.1
- Firmware (EP752/EP761/EP763)
- Library files (Library file have to put in PC and set right path in step 4)

Note: The FW upgrade procedure for EP752/EP761/EP763 is the same. Here, we take EP761 as an example.

Hardware :

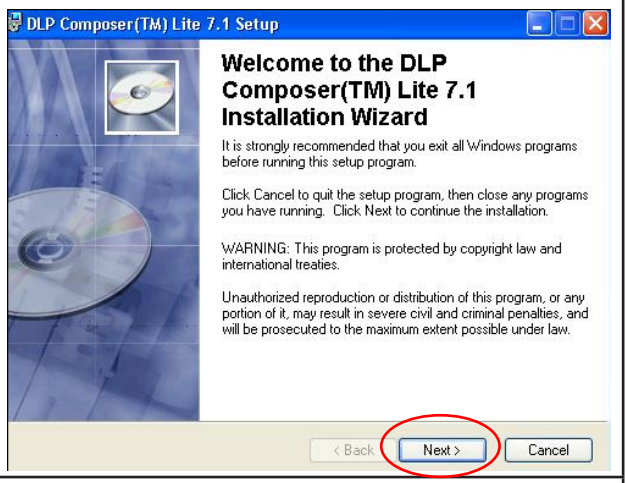
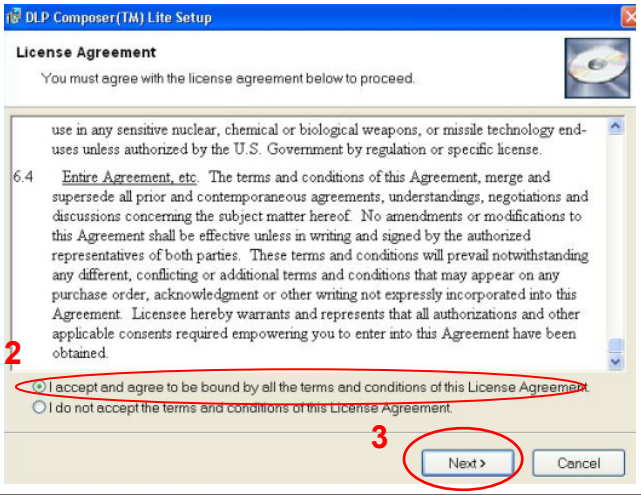
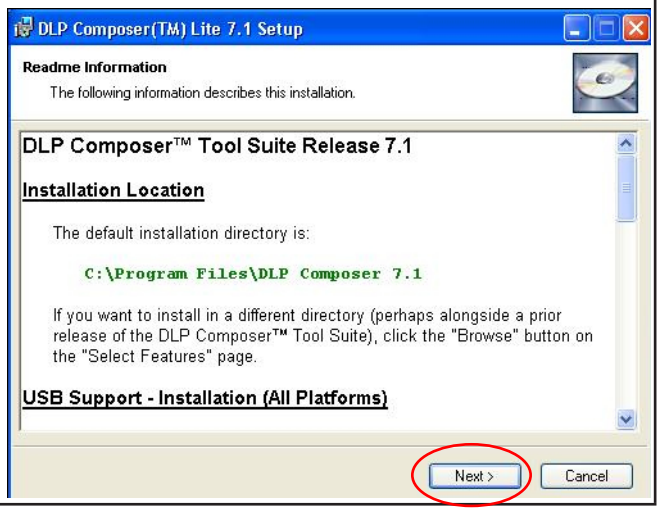
Item	Photo	Item	Photo
Projector (EP761)		USB Cable (42.87304G001)	
Power Cord		PC or Laptop	

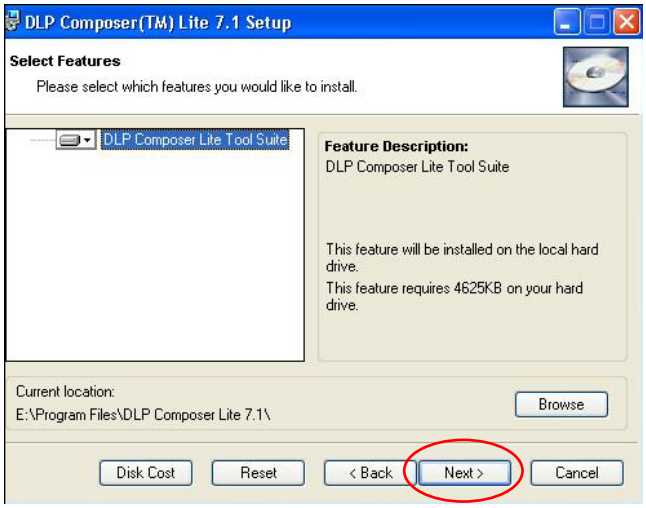
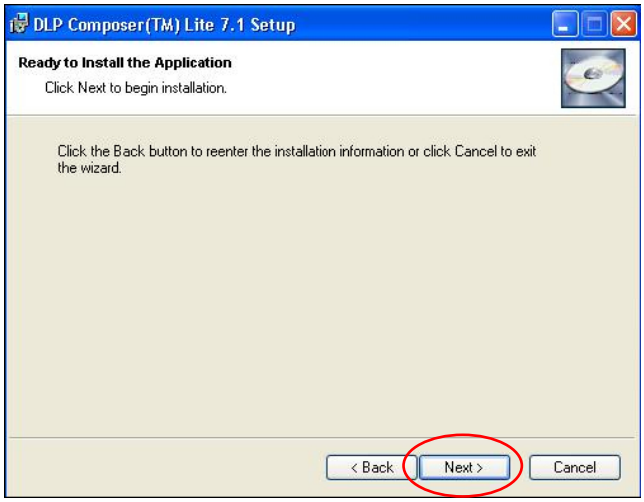
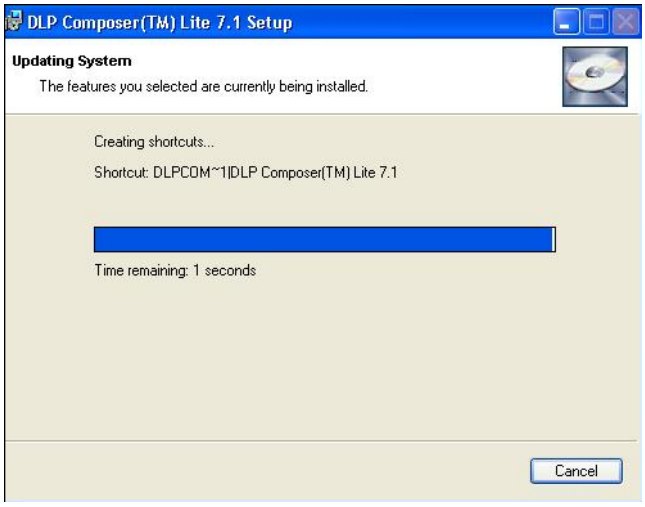
5-2 Firmware Upgrade Mode:

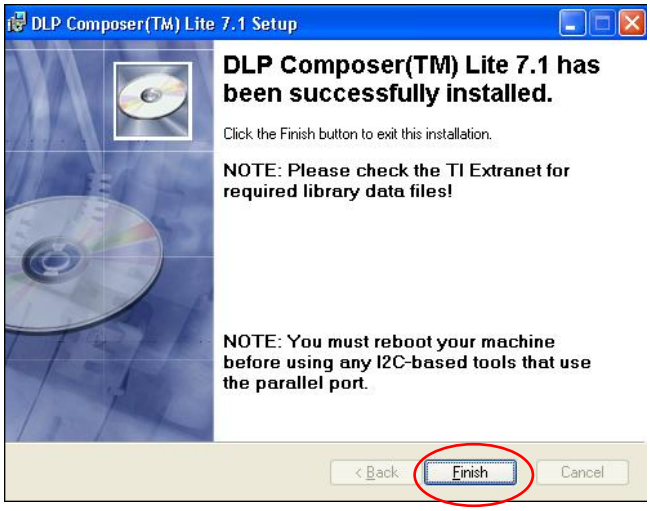
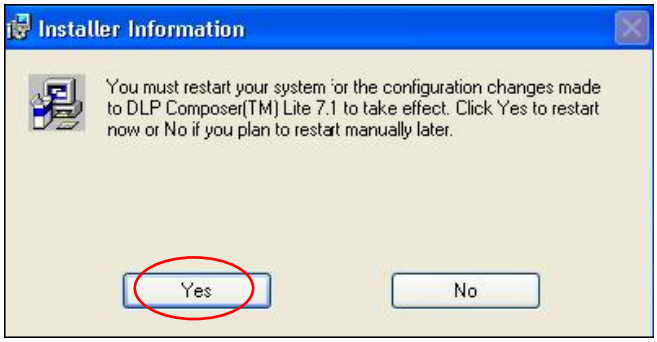
Item	Photo
Before doing firmware upgrade, please get into firmware mode first. How to get into firmware mode: Hold on “MENU” button then plug in power cord. “MENU” button must be held until Temp and Lamp LED light up.	

5-3 Installation Procedure

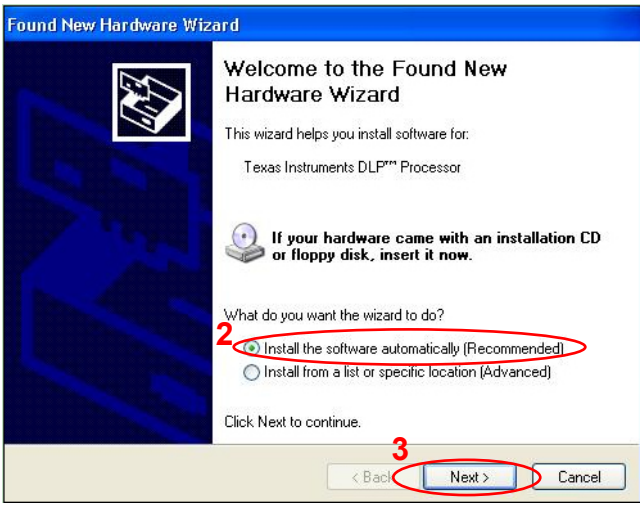
DLP Composer Lite Setup Procedure

No	Step	Procedure	Photo
1	Execute FW program	Choose “DLP Composer Lite v7.1 Setup” program.	
2	Next	Click “Next” button.	
3	Next	1. Reading the “License Agreement” rules. 2. Choose “I accept and agree to be bound by all the terms and conditions of this License Agreement” icon. 3. Click “Next” button.	
4	Next	Click “Next” button.	

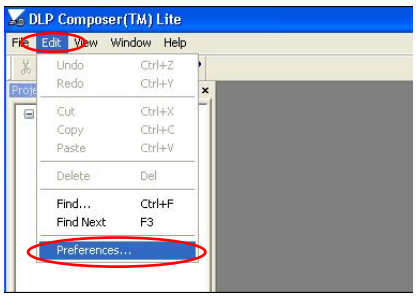
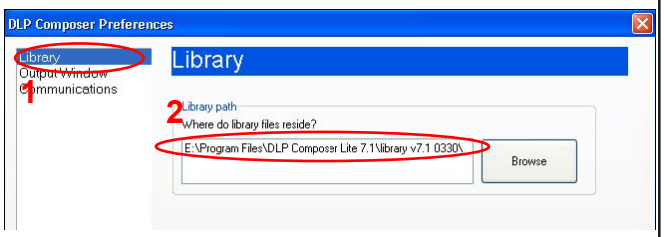
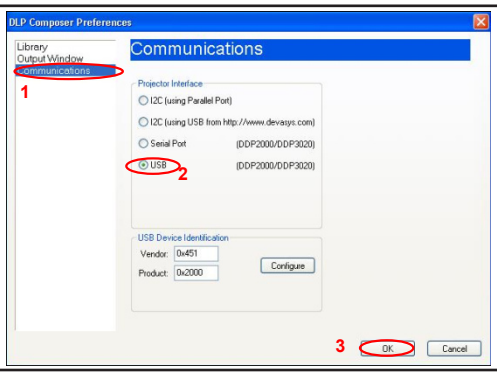
No	Step	Procedure	Photo
5	Next	Click “Next“ button	
6	Next	Click “Next” button.	
7	Process-ing	The program is execut-ing “Initializing” status.	

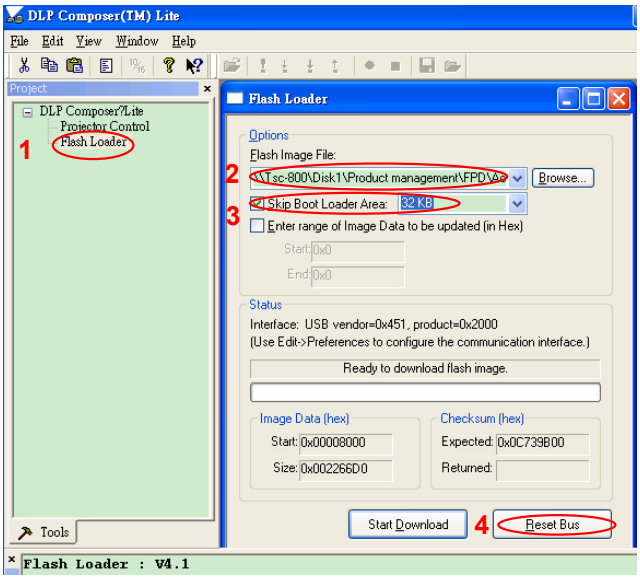
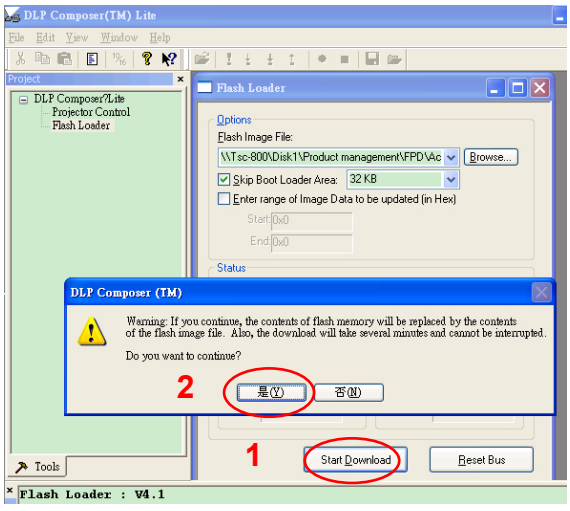
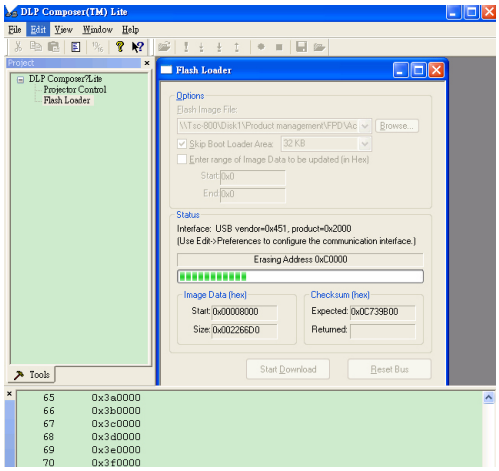
No	Step	Procedure	Photo
8	Finish	Then press “Finish“ to end installation.	
9	Restart	Press “Yes“ to restart the computer.	

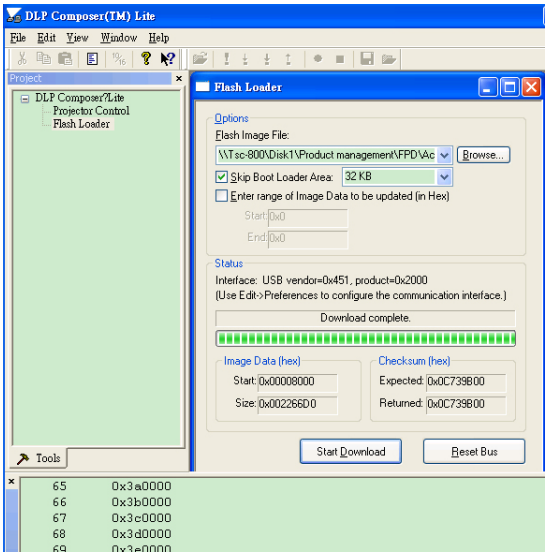
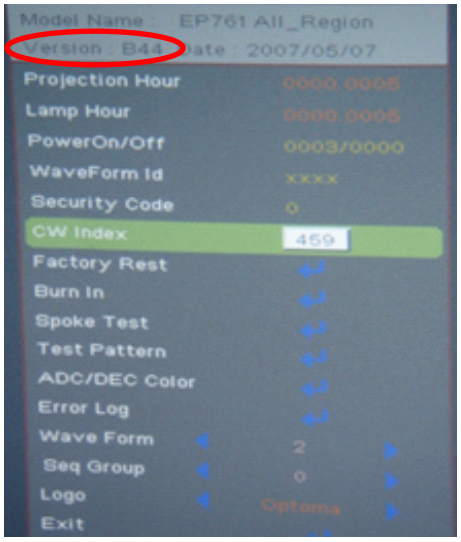
USB Driver Installation Procedure

No	Step	Procedure	Photo
1	Setup	1. Plug in Power cord to projector. 2. Link PC USB port and projector USB port by USB Cable.	
2	Installa-tion	1. “Found new hardware wiszard“ will be appe-arred on the screen. 2. Select “Install the software automatically (Recommended)“ 3. Then click “Next“	
3	Finish	Click “Finish“ to end the installation.	

5-4 Firmware Upgrade Procedure

No	Step	Procedure	Photo
1	Setup	1. Enter in Firmware upgrade mode (refer to the action of 5-2 Firmware upgrade mode) 2. Link PC USB port and projector USB port by USB Cable.	
2		Execute the “DLP Compose(TM)Lite 7.1”.	
3		Click “Edit” and “Preferences”.	
4		1. Click “Library”. 2. Click “Browse“ to search the library file “library v7.1 0330“. The library file located in the default installation directory is E:\ Program Files\ DLP Composer Lite 7.1 \library v7.1 0330\ If not, press “Browse” to select the right path.	
5		1. Click “Communications“. 2. Choose “USB“. 3. Click “OK“.	

No	Step	Procedure	Photo
6		1. Choose “Flash Loader” 2. Click “Browse” to search the firmware file. 3. Select “Skip Boot Loader Area” to 32KB. 4. Click “Reset Bus” to erase the flash memory. (Note: If the error message “cannot open USB driver - No projectors found” appears, please unplug the USB Cable and replug, then check Driver. Finally,re-do 4. Click “Reset Bus” to erase the flash memory.	
7		1. If the firmware is ready, click “Start Download” to process the firmware upgrade. 2. Click “Yes” to erase the flash memory.	
8	Proceeding	Proceeding Picture	

No	Step	Procedure	Photo
9		1. When Firmware Upgrade Process is finished, the LED power light on. 2. Unplug USB Cable and Power Cord. Re-plug in Power Cable.	
10	Check Firmware	Restart the unit and enter the Service Mode.Then choose”Information and Reset” item to check the Firmware Version. (For entering Service Mode, please refer to Chapter 4 Function Test and Alignment Procedure.)	

Chapter 6

EDID Upgrade

EDID Introduction

Extended **D**isplay **I**dentification **D**ata is a VESA standard data format that contains basic information about a display device and its capabilities, including vendor information, maximum image size, color characteristics, factory pre-set timings, frequency range limits, and character strings for the monitor name and serial number.

The information is stored in the display and is used to communicate with the system through a Display Data Channel (DDC), which sites between the display device and the PC graphics adapter. The system uses this information for configuration purposes, so the monitor and system can work together.

Note:

If a display device has digital input ports, like DVI or HDMI, but without EDID in its main board, the display device will show no image while the input source is digital signal.

Equipment Needed

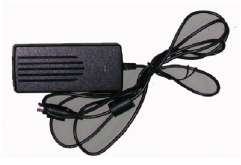
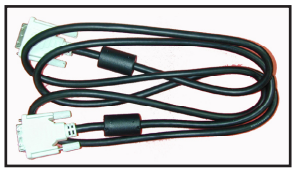
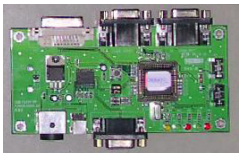
Software:

- EDID Program (Generic V0.51)
- EDID File (EP752/EP761/EP763)(*.ini)

Note: The EDID upgrade procedure for EP752/EP761/EP763 is the same. Here, we take EP761 as an example.

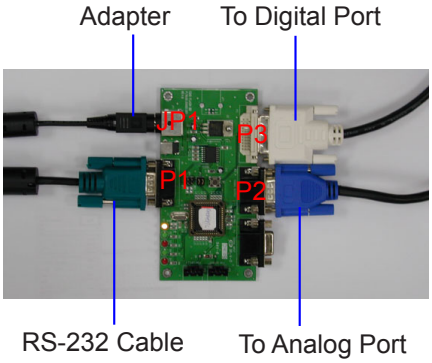
Hardware:

- Generic Fixture for EDID Key-in

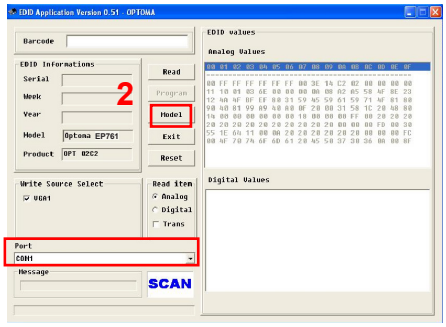
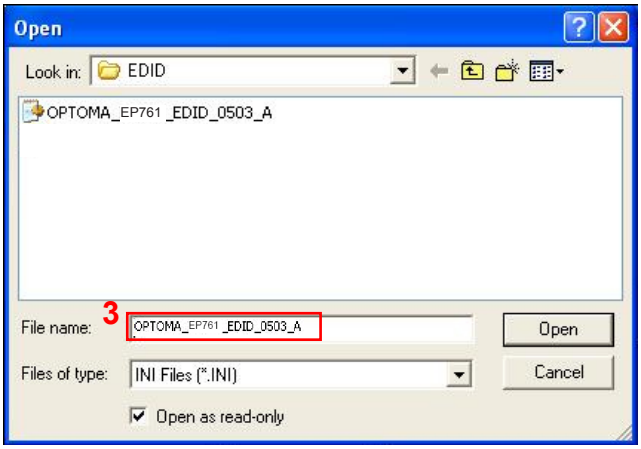
Item	Photo	Item	Photo
RS-232 Cable (F - M) (42.83618G001)		Power Adapter for Fixture	
DVI Cable (42.83N06G001)		Generic Fixture (80.00001.001)	
VGA Cable (42.87305G001)		Power Cord	

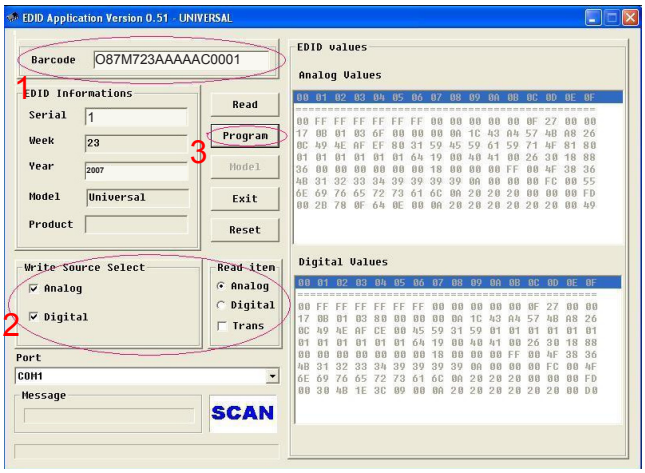
Item	Photo	Item	Photo
PC		One additional monitor (for checking the program execution)	
Projector (EP761)			

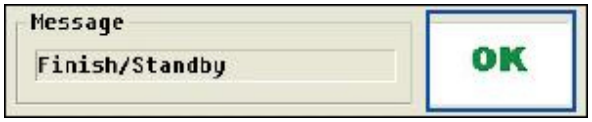
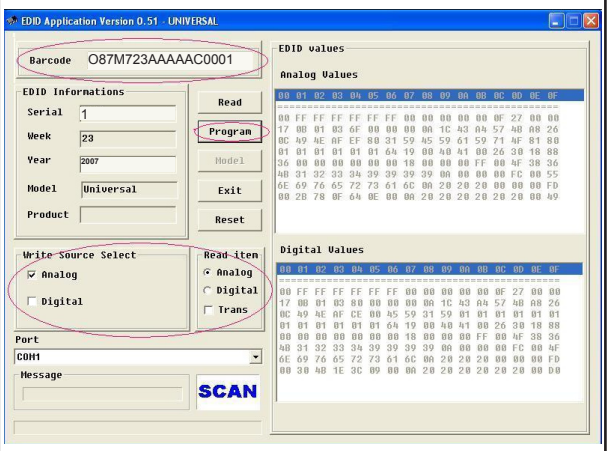
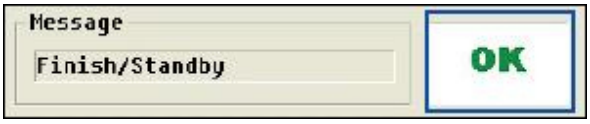
Setup Procedure

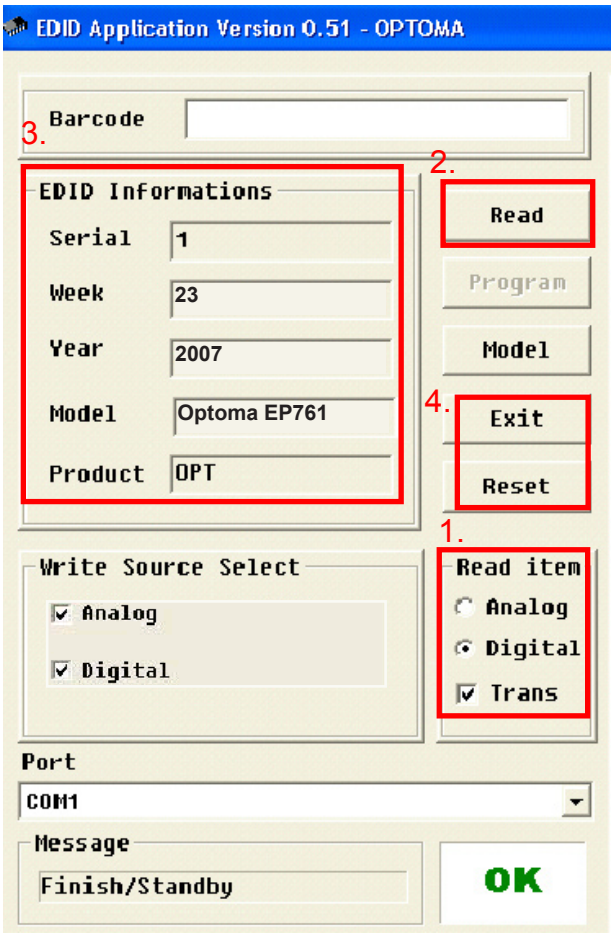
No	Step	Procedure	Photo
1	Connect All Ports	1. Power Adapter to Fixture JP1 2. Fixture P1 to PC COM1 Port by RS232 Cable 3. Fixture P2 to Projector Analog Port 4. Fixture P3 to Projector Digital Port	
2	Power On Fixture	Power on Fixture	

EDID Key-In Procedure

No	Step	Procedure	Photo
1	Execute EDID Program.	Click on “EDID” to execute EDID Program.	
2	Choose Model	1. In the Port Selection Bar, please choose the Port that you use.Ex: If you use “COM 1”, choose COM 1 in the Port selection. 2. Click on “Model”. 3. Choose the EDID that responses to the model that you choose.	 

No	Step	Procedure	Photo
3	Key in Serial Number	1. Key in the Serial Number into the Barcode blank space. 2. In “Write Source Select”, make a check in “Analog”, and “Digital”. 3. Click “Program”.	
4	Change Cable to VGA1	“Please change the Cable to VGA1” message is shown on the screen, then click “OK”.	
5	Change Cable to DVI	“Please change the Cable to DVI” message is shown on the screen, then click “OK”.	

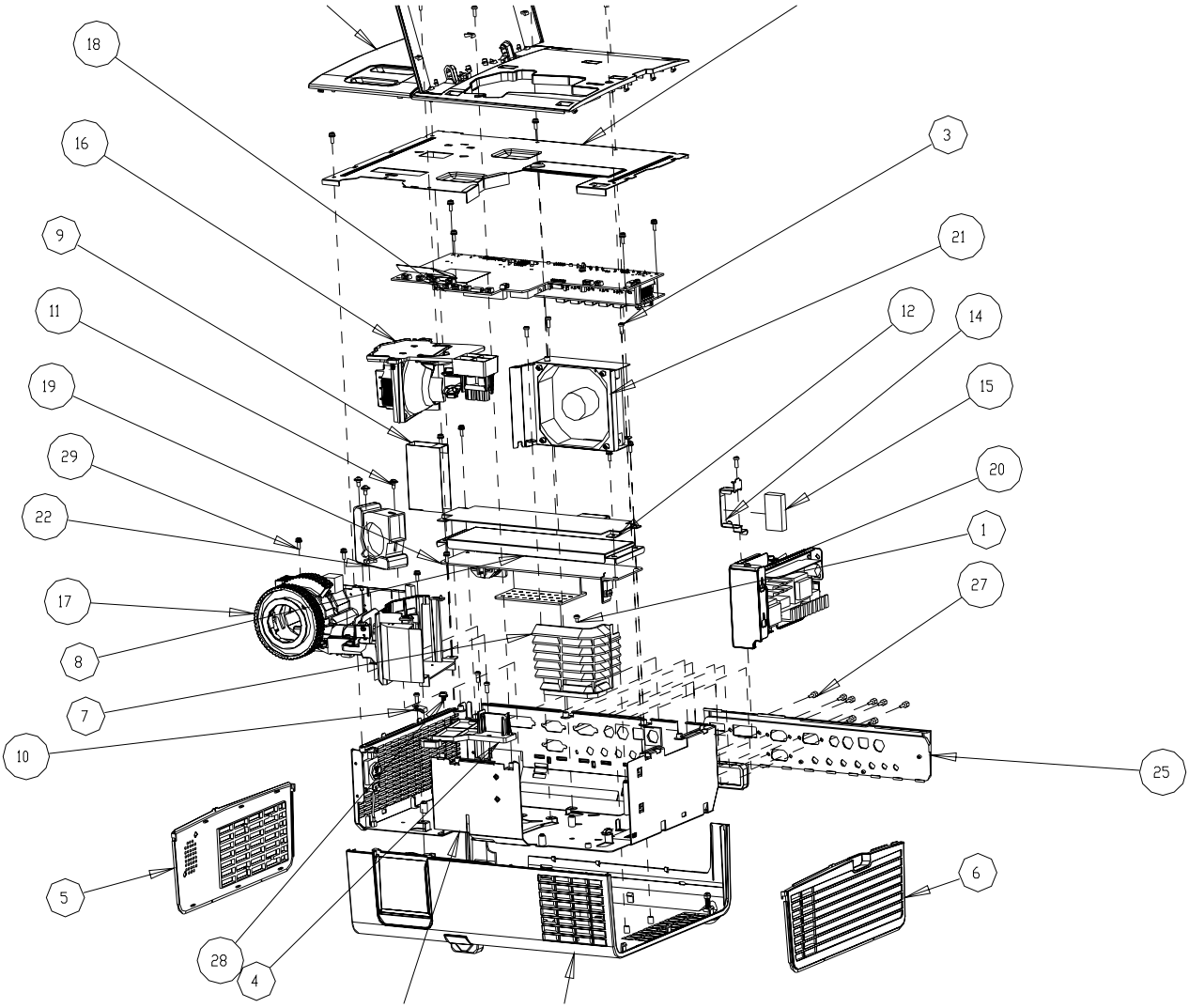
No	Step	Procedure	Photo
6	Program	When the EDID program for Analog and Digital is completed, the message, “OK”, will appear on the screen.	
7	Key in Serial Number again	1. Unplug VGA cable then plug into the other VGA Port 2. Key in the Serial Number into the Barcode blank space. 3. In “Write Source Select”, make a check in “Analog”. 4. Click “Program”.	
8	Change Cable to VGA1	“Please change the Cable to VGA1” message is shown on the screen, then click “OK”.	
9	Finish	When the EDID program for Analog and Digital is completed, the message, “OK”, will appear on the screen.	

No	Step	Procedure	Photo
10	Check the whole process	1. In the “Read Item” Selections,choose the Port that you use. Ex: If you use the Analog Port, choose “Analog” in the “Read Item”. 2. Click on “Read” to read EDID information. 3. The “EDID Informations” will show the result. (Note: After pressing “Read”, if the code in the Serial Blank is scrambled, please make a check in “Trans”.) 4. Click “Reset” to do the next unit or “Exit” to close the EDID program. PS. Both Analog and Digital are needed to be checked.	

Appendix A

Exploded Overview

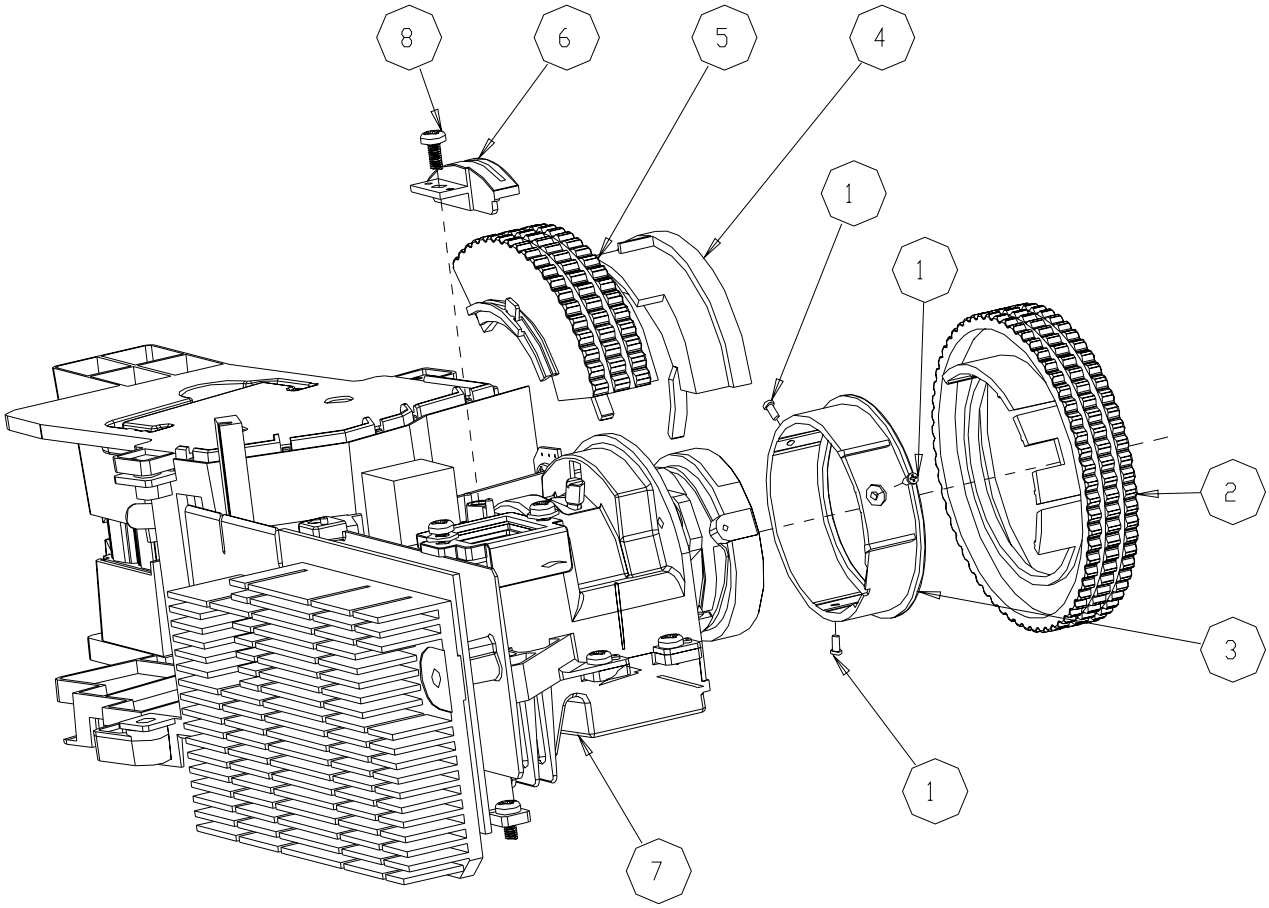
D.C. EP752



Item	P/N	Description
1	85.1A323G040	SCREW PAN MECH M3*4 BLACK
2	85.1A323G080	SCREW PAN MECH M3*8 BLACK GREEN
3	85.WA123G060	SCREW PAN TAP M3*8 Ni
4	51.86V02G001	ENGINE MASK PLATE PPS X19
5	51.87K20G001	RIGHT COVER EP752
6	51.87K21G001	LEFT COVER EP752
7	51.87K23G001	INNER-MASK EP752
8	51.87K28G001	MYLAR FOR LVPS EP752
9	51.87K31G001	MYLAR BETWEEN LVPS AND ENGINE
10	61.00079G001	GROUNDING CABLE CLAMP FN-008 "PINGOOD
11	61.87340G001	STAND OFF M3*4L D8.0 2100MP
12	61.87H02G001	LVPS BRACKET AL 230W XD1171D
13	61.87K01G001	TOP SHIELDING EP752
14	61.87K05G001	HONEYCOMBED FIXED HOLDER EP752
15	61.87K06G001	PHOTOCATALYSIS HONEYCOMBED FOIL EP752
16	70.86V08G001	ASSY LAMP MODULE OSRAM 200W X19
17	70.87J01G001	ASSY TYPE X ENGINE MODULE EP752
18	70.87J02G001	ASSY MB PCBA EP752
19	70.87K03G001	ASSY X19 LVPS MODULE 230W EP752
20	70.87K04G001	ASSY LAMP DRIVER OSRAM 230W EP752
21	70.87K05G001	ASSY FAN 8025 MODULE EP752
22	70.87K06G001	ASSY BLOWER 5020 EP752
23	70.87K07G001	ASSY TOP COVER EP752
24	70.87K08G001	ASSY BOTTOM COVER EP752
25	70.87K09G001	ASSY IO COVER EP752
26	70.87K10G001	ASSY SYSTEM SUPPORT SHIELDING MO SPK MODULE EP752
27	85.005AGG408	SCREW HEX I/O #4-40 H4*L8 Ni Nylok
28	85.1C224G050	SCREW PAN MECH M4*5 COLOR W/TOOTH WAEHER
29	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

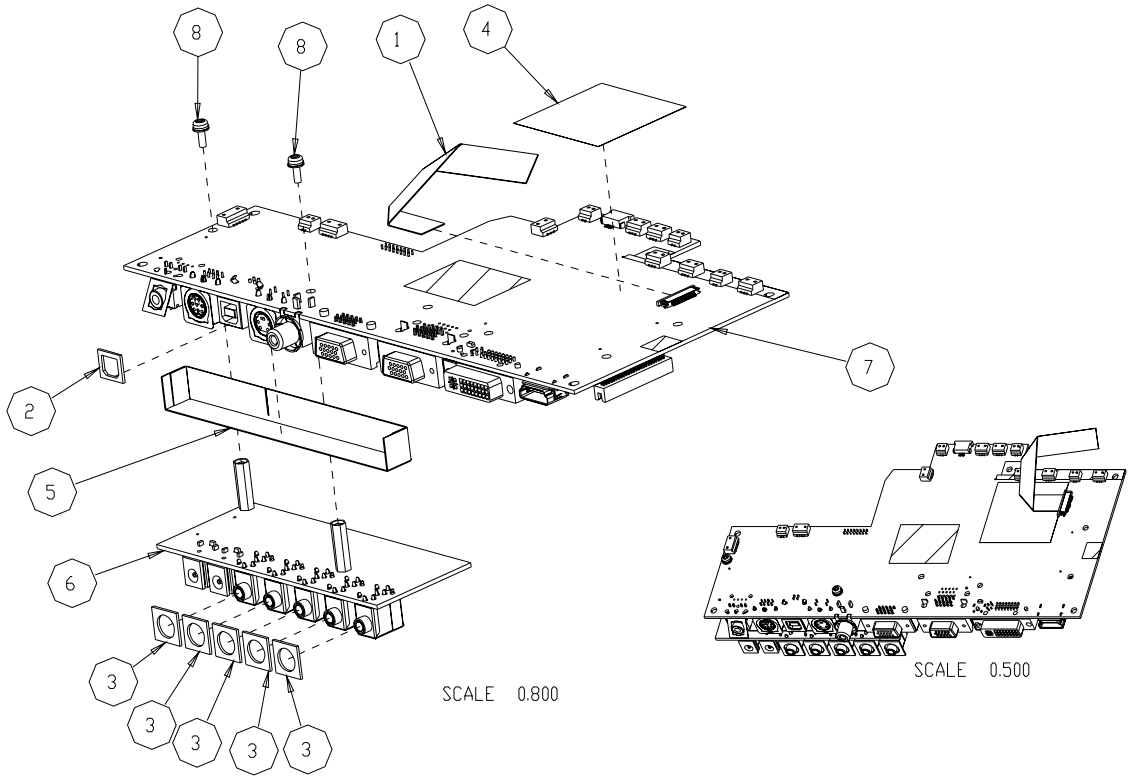
ASSY TYPE X ENGINE MODULE EP752



Item	P/N	Description
1	85.YA121G035	SCREW FLAT TAP 1 LEAD M1.7*3.5 CR+3
2	51.87K07G001	FOCUS RING EP752
3	51.87K08G001	FOCUS RING TRANSFER EP752
4	51.87K09G001	FOCUS RING FIXED HOLDER EP752
5	51.87K10G001	ZOOM RING EP752
6	51.87K11G001	ZOOM RING ORBIT EP752
7	70.86V13G001	ASSY ENGINE MODULE XGA 200W-2 X19
8	85.1A523G060	SCREW PAN MECH M3*6 Ni NYLOK

Note: Please refer to RSPL for updated part numbers.

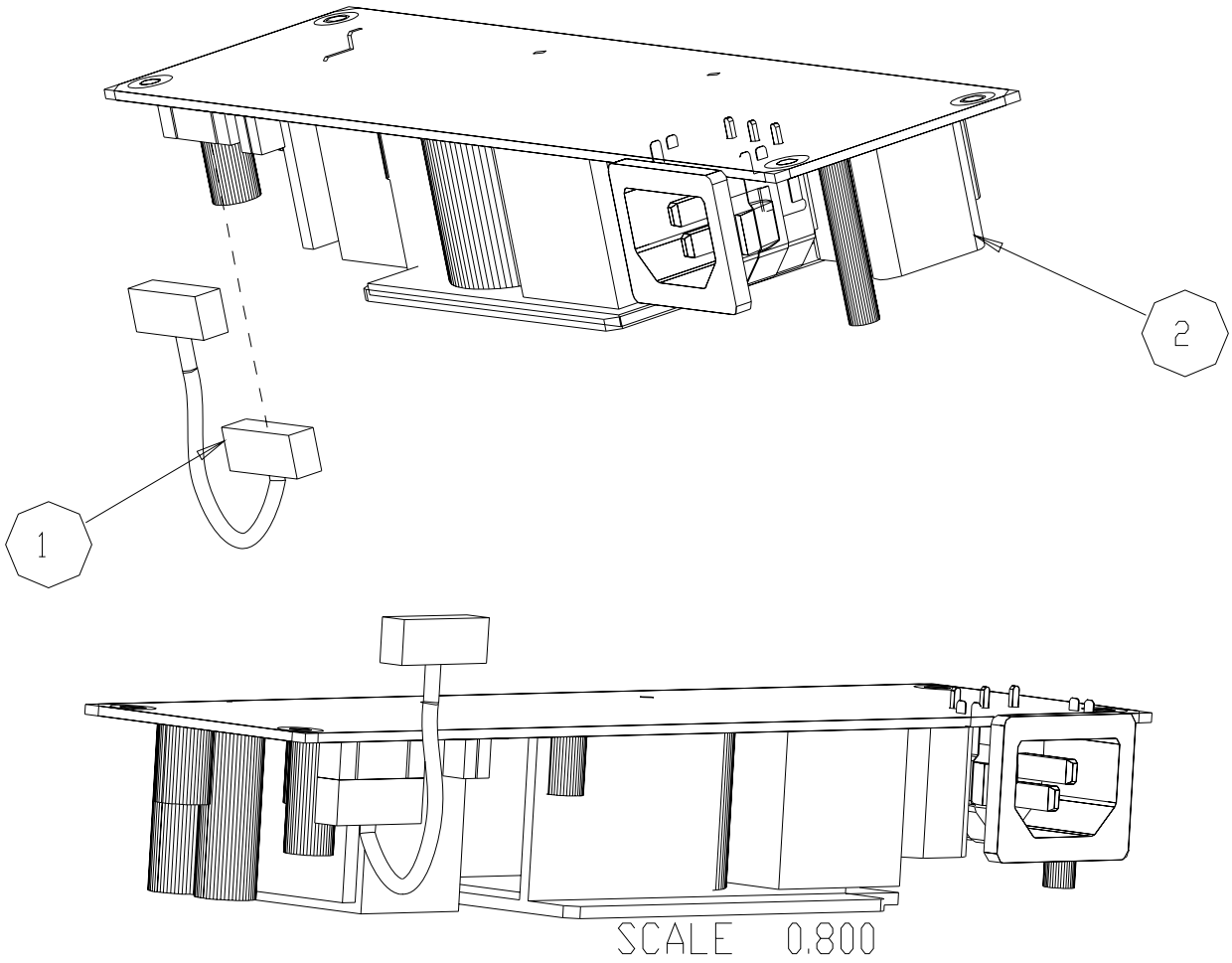
ASSY MB PCBA EP752



Item	P/N	Description
1	42.00303G001	FFC KEYPAD TO M/B 24P P=0.5 120mm EP752
2	41.82G03G002	I/O USB CONNECTOR GASKET W14*H2*L13mm
3	41.85E06G001	GASKET W13*L13*H1MM 9MM
4	51.82Y26G001	TAPE 3M J1350 45*45MM FOR MIRROR 1 DP715
5	51.87K32G001	MYLAR FOR MB
6	70.87M08G001	ASSY AUDIO BD EP761
7	80.87J01G002	PCBA MAIN BD ENTEK FOR EP752
8	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

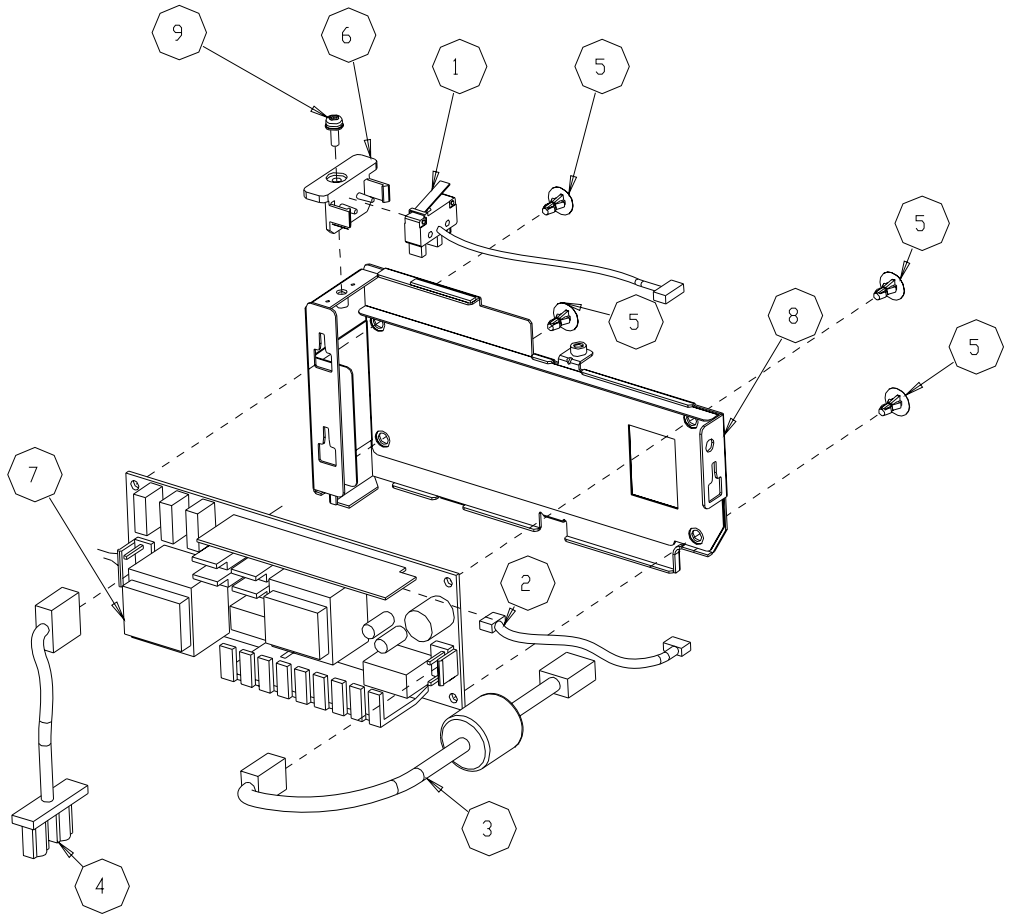
ASSY X19 LVPS MODULE 230W E752



Item	P/N	Description
1	42.00451G001	W.A. 16P 2100mm LVPS TO MAIN BD UL1007 EP752
2	75.87J01G001	ASSY LVPS MATRITEK 200W EP752

Note: Please refer to RSPL for updated part numbers.

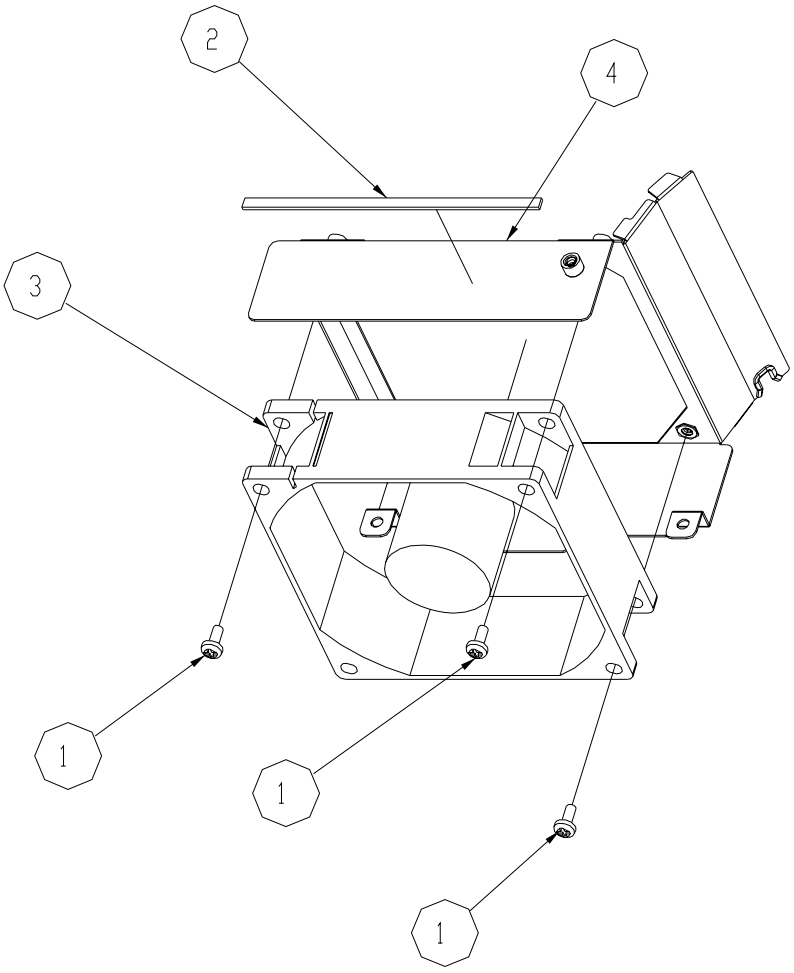
ASSY LAMP DRIVER OSRAM 230W EP752



Item	P/N	Description
1	75.85S07G001	ASSY INTERRUPTER SWITCH HD70
2	42.00471G001	W.A. 5P #28 75MM BALLAST/MAIN BOARD EP761
3	42.83M06G001	W.A. 2P #20 180MM LVPS TO LAMP DRIVER 2400MP
4	42.85F01G001	CABLE W.A. 2P#22 160MM LAMP DRIVER TO LAMP EP1690
5	51.00138G001	SPACER SUPPORT SCK-3A
6	51.87K18G001	LIMIT SWITCH HOLDER EP752
7	75.87J04G001	ASSY OSRAM LAMPDRIVER 200W
8	75.87K03G001	ASSY LAMP DRIVER OSRAM BRK EP752
9	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

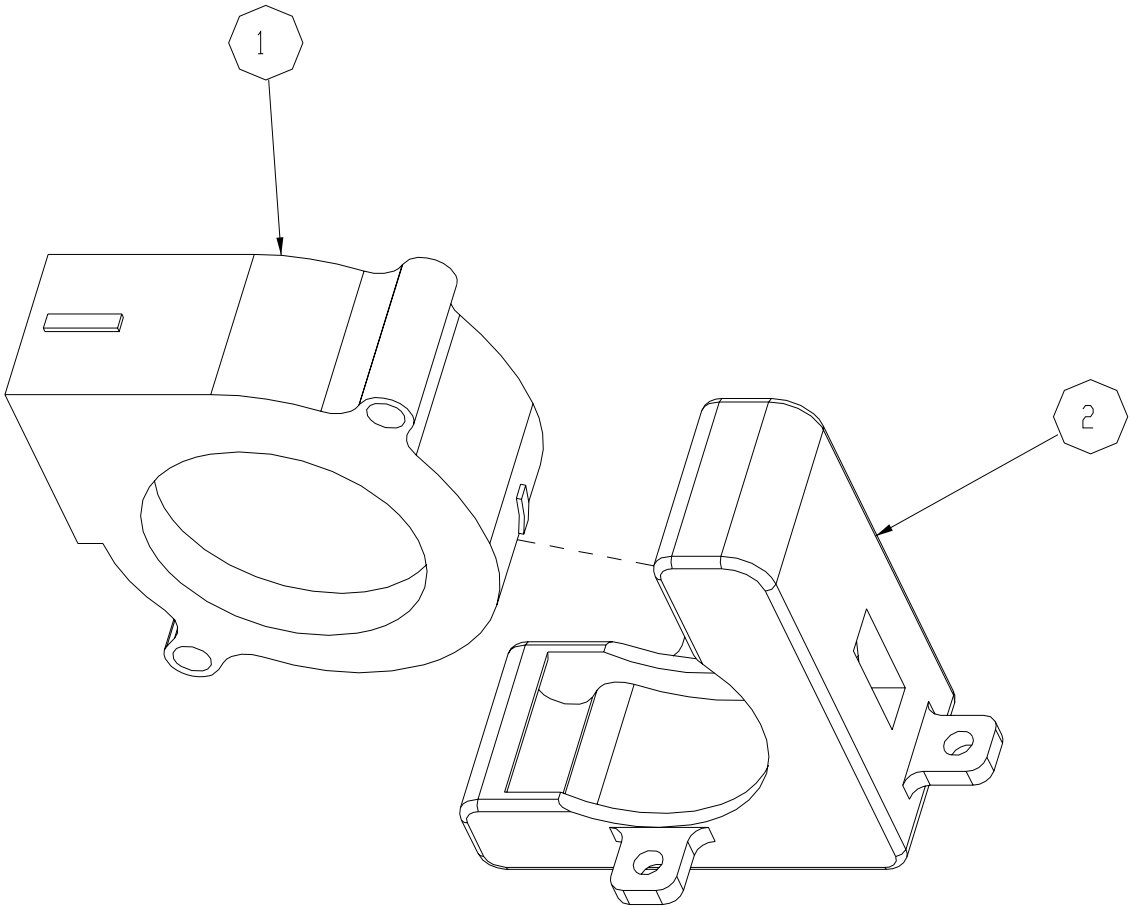
ASSY FAN 8025 MODULE EP752_EP761_EP763



Item	P/N	Description
1	85.1A323G080	Screw Pan M3x8 Black
2	41.87M02G001	GASKET W3*H1*L80
3	49.87J01G001	SUNON PSD1208PTV1-A 80*25mm AXIAL FAN
4	61.87H01G001	FAN 8025 BRACKET AL XD1171D

Note: Please refer to RSPL for updated part numbers.

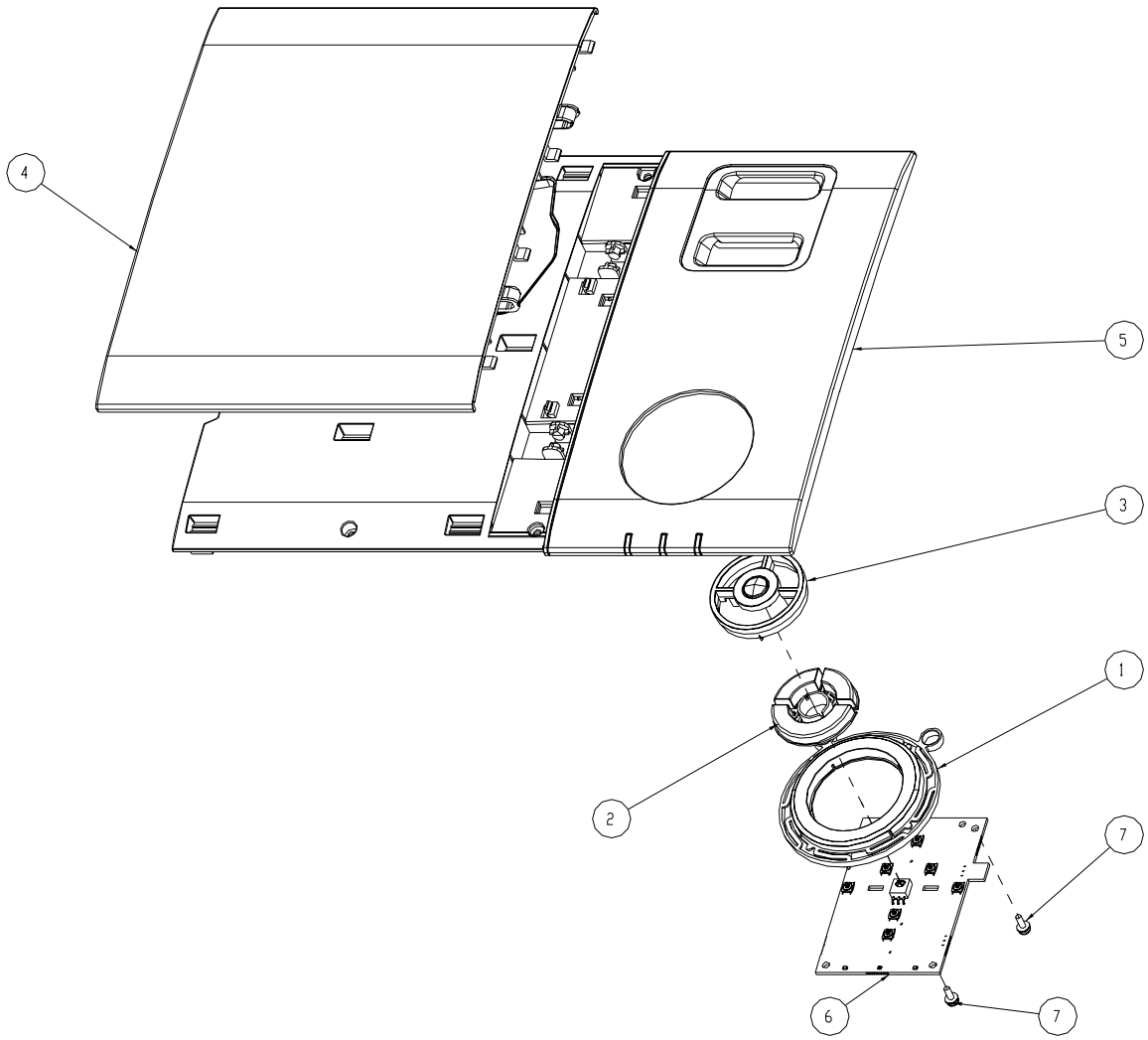
ASSY BLOWER 5020 EP752_EP761



Item	P/N	Description
1	49.87J02G001	SUNON GB1205PKV5-AY 50*25mm BLOWER FAN
2	52.87306G001	RUBBER BLOWER FAN FRAME 2100MP

Note: Please refer to RSPL for updated part numbers.

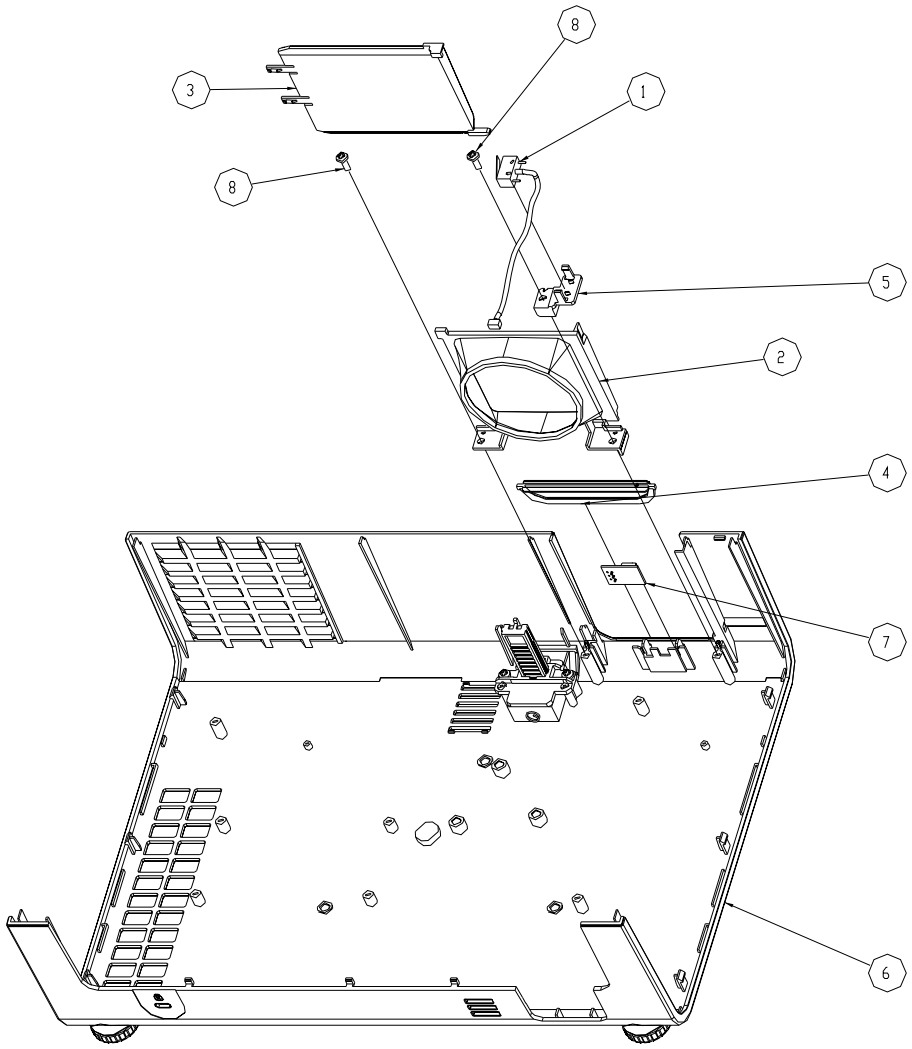
ASSY TOP COVER EP752



Item	P/N	Description
1	51.87K02G001	KEY BUTTON OUTER EP752
2	51.87K03G001	KEY BUTTON INNER EP752
3	51.87K04G001	IR LENS TOP EP752
4	51.87K22G001	LAMP COVER EP752
5	75.87K04G001	ASSY TOP COVER EP752
6	80.87M03G001	PCBA KEYPAD BD ENTEK FOR EP761
7	85.1F123G080	Screw Pan Spg+Flt M3x8 Ni

Note: Please refer to RSPL for updated part numbers.

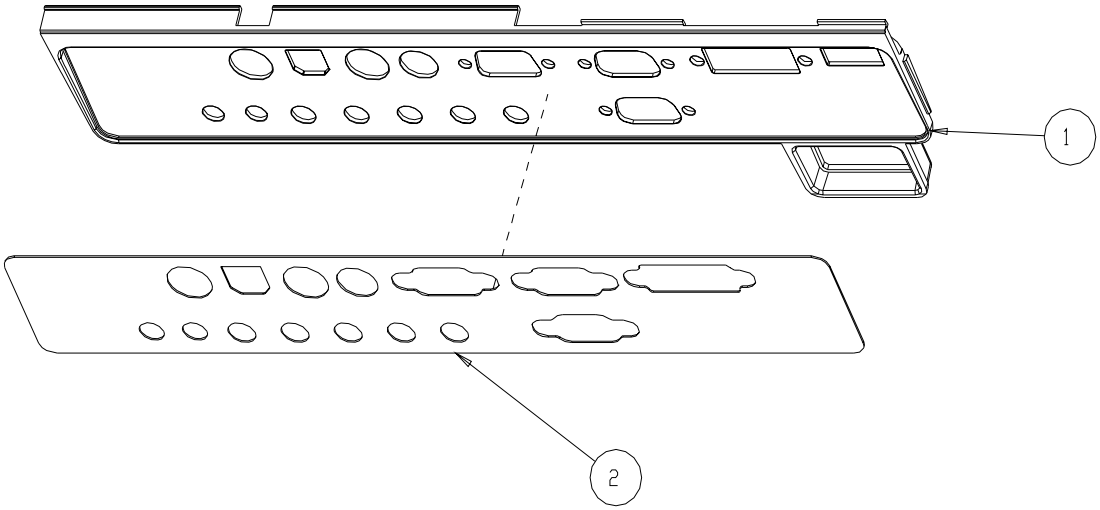
ASSY BOTTOM COVER EP752



Item	P/N	Description
1	75.87K02G001	ASSY INTERRUPT SWITCH MODULE EP752
2	51.87K13G001	LENS CASE WXGA EP752
3	51.87K14G001	LENS DOOR EP752
4	51.87K15G001	IR LENS FRONT EP752
5	51.87K17G001	LENS DOOR SWITCH HOLDER EP752
6	75.87K05G001	ASSY BOTTOM COVER EP752
7	80.87M05G001	PCBA IR SENSOR BD FOR EP761
8	85.WA123G080	Screw Pan Tap M3x8

Note: Please refer to RSPL for updated part numbers.

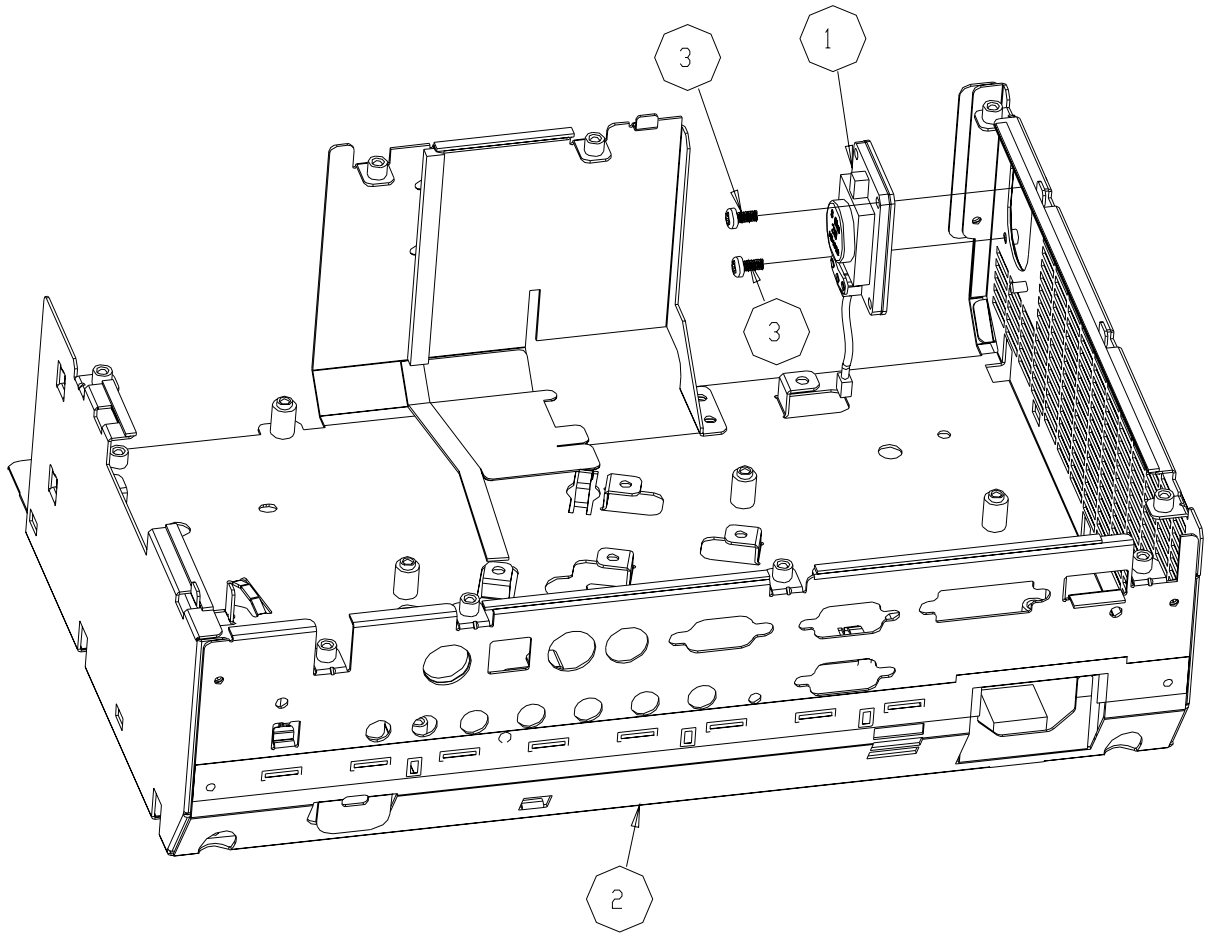
ASSY IO COVER EP752



Item	P/N	Description
1	51.87K19G001	IO COVER EP752
2	51.87K24G001	OVERLAY PC EP752

Note: Please refer to RSPL for updated part numbers.

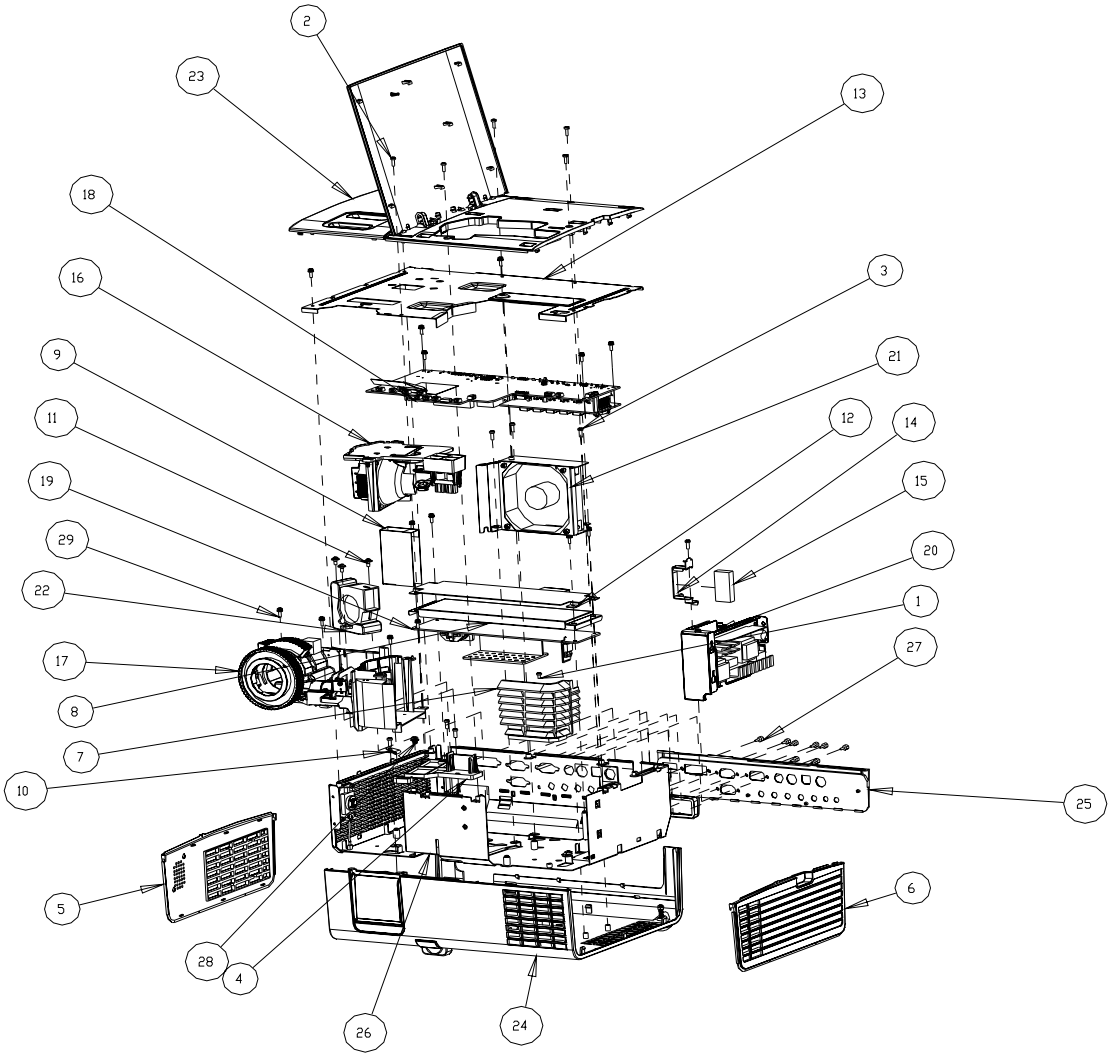
ASSY SYSTEM SUPPORT SHIELDING MO SPK MODULE EP752_EP761



Item	P/N	Description
1	49.87K01G001	SPEAKER 8ohm 2W 16 EP752
2	75.87K01G001	ASSY SYSTEM SUPPORT SHIELDING MO EP752
3	85.1A523G060	SCREW PAN MECH M3*6 Ni NYLOK

Note: Please refer to RSPL for updated part numbers.

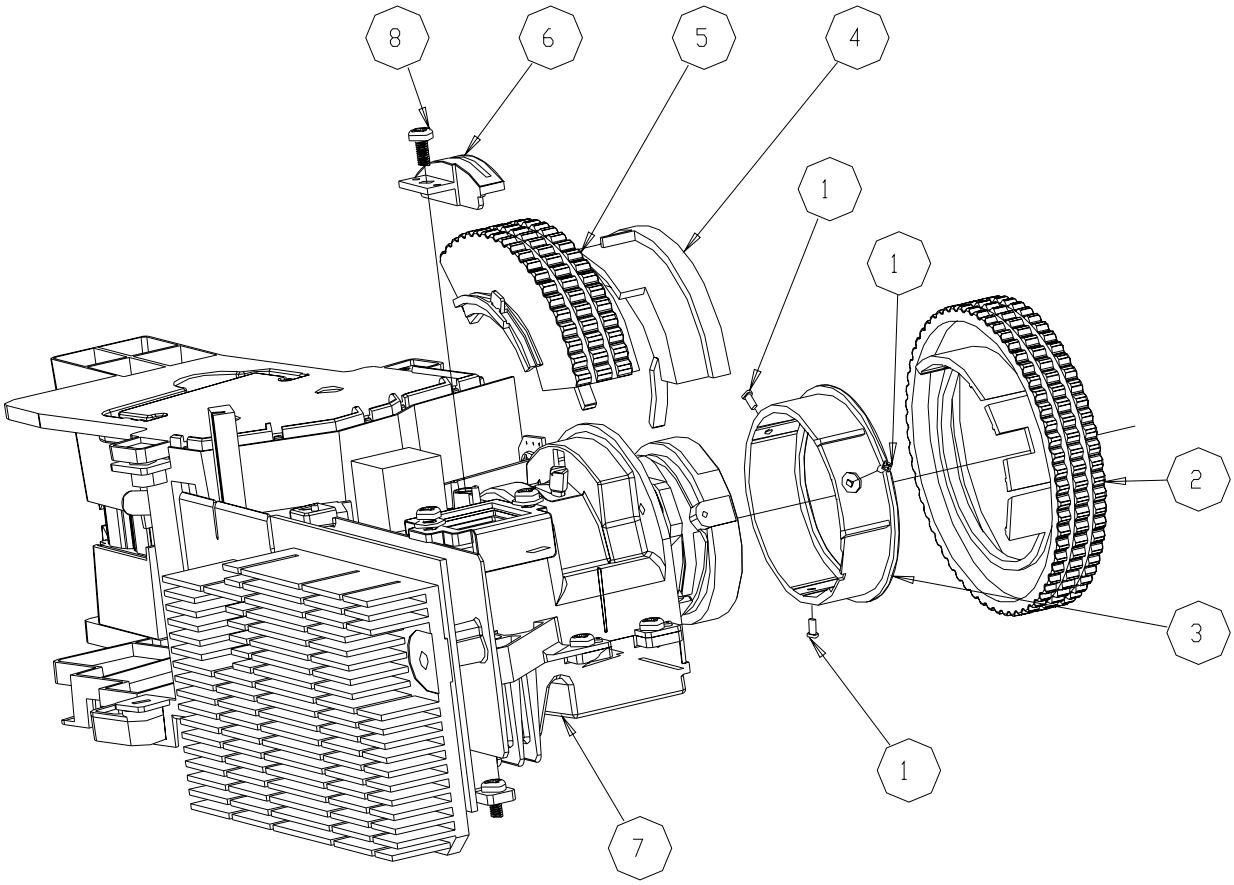
D.C. EP761



Item	P/N	Description
1	85.1A323G040	SCREW PAN MECH M3*4 BLACK
2	85.1A323G080	SCREW PAN MECH M3*8 BLACK GREEN
3	85.WA123G060	SCREW PAN TAP M3*8 Ni
4	51.86V02G001	ENGINE MASK PLATE PPS X19
5	51.87K20G001	RIGHT COVER EP752
6	51.87K21G001	LEFT COVER EP752
7	51.87K23G001	INNER-MASK EP752
8	51.87K28G001	MYLAR FOR LVPS EP752
9	51.87K31G001	MYLAR BETWEEN LVPS AND ENGINE
10	61.00079G001	GROUNDING CABLE CLAMP FN-008 "PINGOOD
11	61.87340G001	STAND OFF M3*4L D8.0 2100MP
12	61.87H02G001	LVPS BRACKET AL 230W XD1171D
13	61.87K01G001	TOP SHIELDING EP752
14	61.87K05G001	HONEYCOMBED FIXED HOLDER EP752
15	61.87K06G001	PHOTOCATALYSIS HONEYCOMBED FOIL EP752
16	70.86V09G001	ASSY LAMP MODULE PHILIPS 220W X19
17	70.87M01G001	ASSY TYPE X ENGINE MODULE EP761
18	70.87M02G001	ASSY MB PCBA EP761
19	70.87M03G001	ASSY X19 LVPS MODULE EP761
20	70.87M04G001	ASSY LAMP DRIVER EP761
21	70.87K05G001	ASSY FAN 8025 MODULE EP752
22	70.87K06G001	ASSY BLOWER 5020 EP752
23	70.87M07G001	ASSY TOP COVER EP761
24	70.87M05G001	ASSY BOTTOM COVER EP761
25	70.87M06G001	ASSY IO COVER EP761
26	70.87K10G001	ASSY SYSTEM SUPPORT SHIELDING MO SPK MODULE EP752
27	85.005AGG408	SCREW HEX I/O #4-40 H4*L8 Ni Nylok
28	85.1C224G050	SCREW PAN MECH M4*5 COLOR W/TOOTH WAEHER
29	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

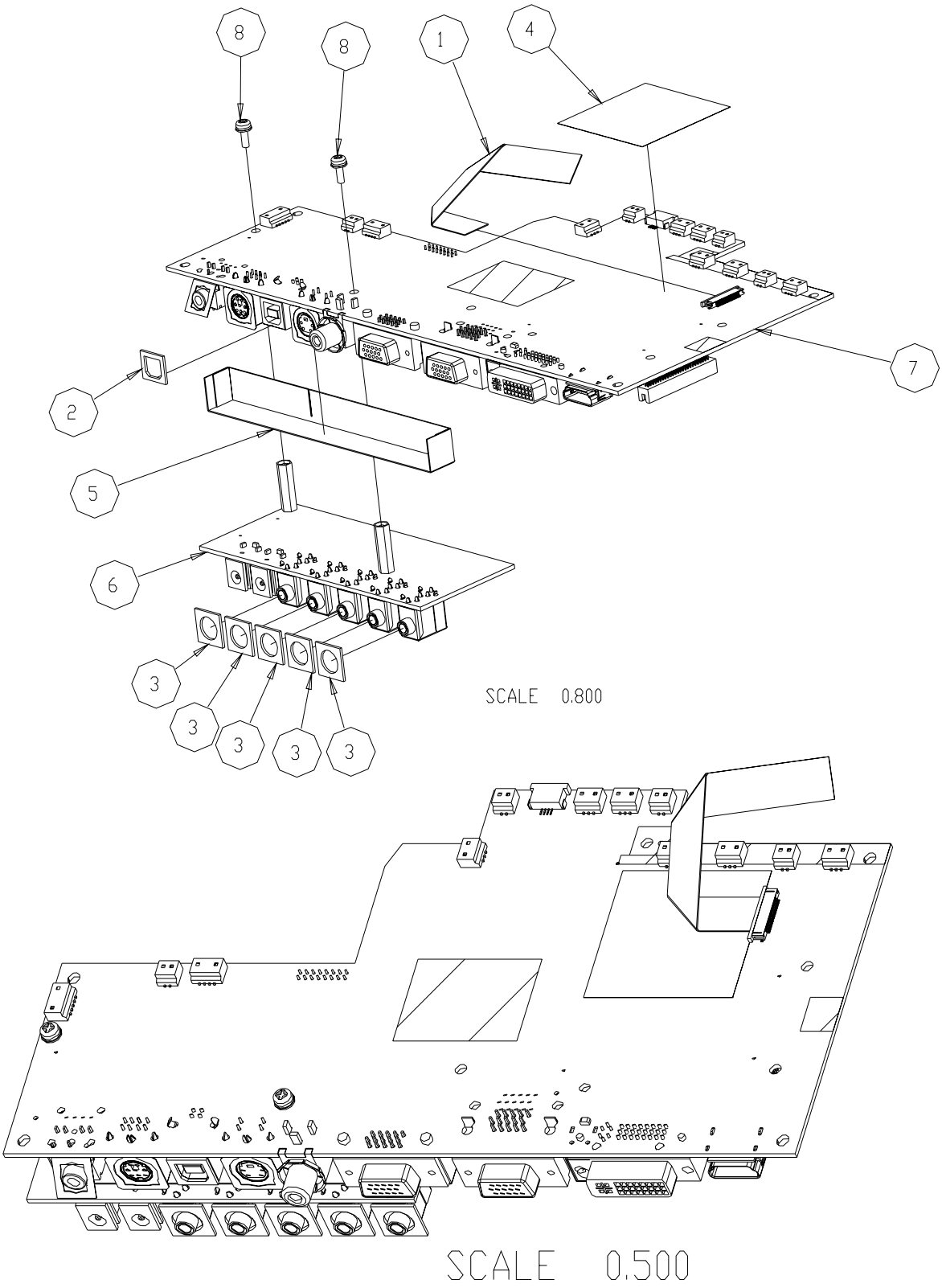
ASSY TYPE X ENGINE MODULE EP761



Item	P/N	Description
1	85.YA121G035	SCREW FLAT TAP 1 LEAD M1.7*3.5 CR+3
2	51.87K07G001	FOCUS RING EP752
3	51.87K08G001	FOCUS RING TRANSFER EP752
4	51.87K09G001	FOCUS RING FIXED HOLDER EP752
5	51.87K10G001	ZOOM RING EP752
6	51.87K11G001	ZOOM RING ORBIT EP752
7	70.86V15G001	ASSY ENGINE MODULE XGA 220W-2 X19
8	85.1A523G060	SCREW PAN MECH M3*6 Ni NYLOK

Note: Please refer to RSPL for updated part numbers.

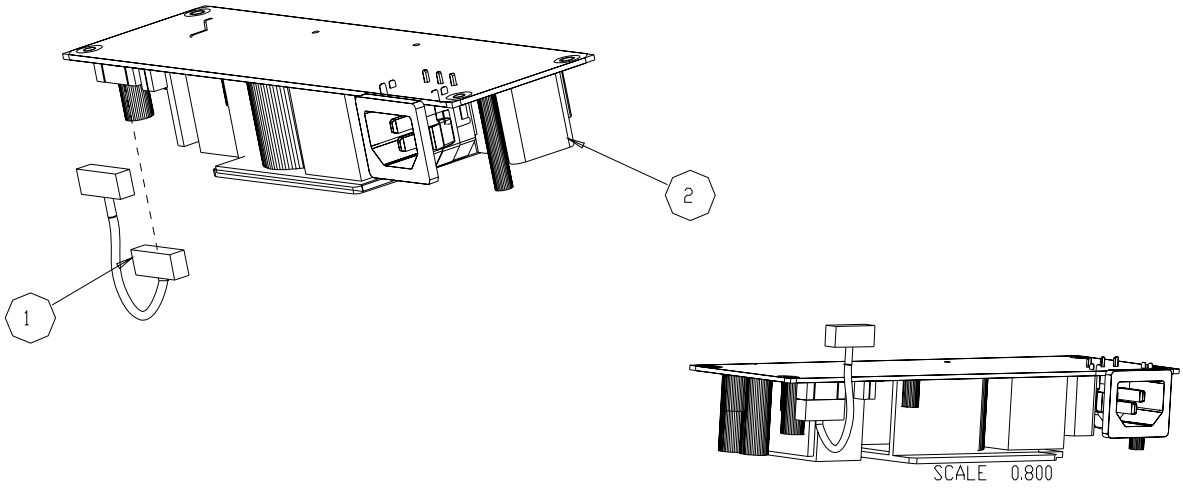
ASSY MB PCBA EP761



Item	P/N	Description
1	42.00303G001	FFC KEYPAD TO M/B 24P P=0.5 120mm EP752
2	41.82G03G002	I/O USB CONNECTOR GASKET W14*H2*L13mm
3	41.85E06G001	GASKET W13*L13*H1MM 9MM
4	51.82Y26G001	TAPE 3M J1350 45*45MM FOR MIRROR 1 DP715
5	51.87K32G001	MYLAR FOR MB
6	70.87M08G001	ASSY AUDIO BD EP761
7	80.87M01G003	PCBA MAIN BD2 ENTEK FOR EP761
8	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

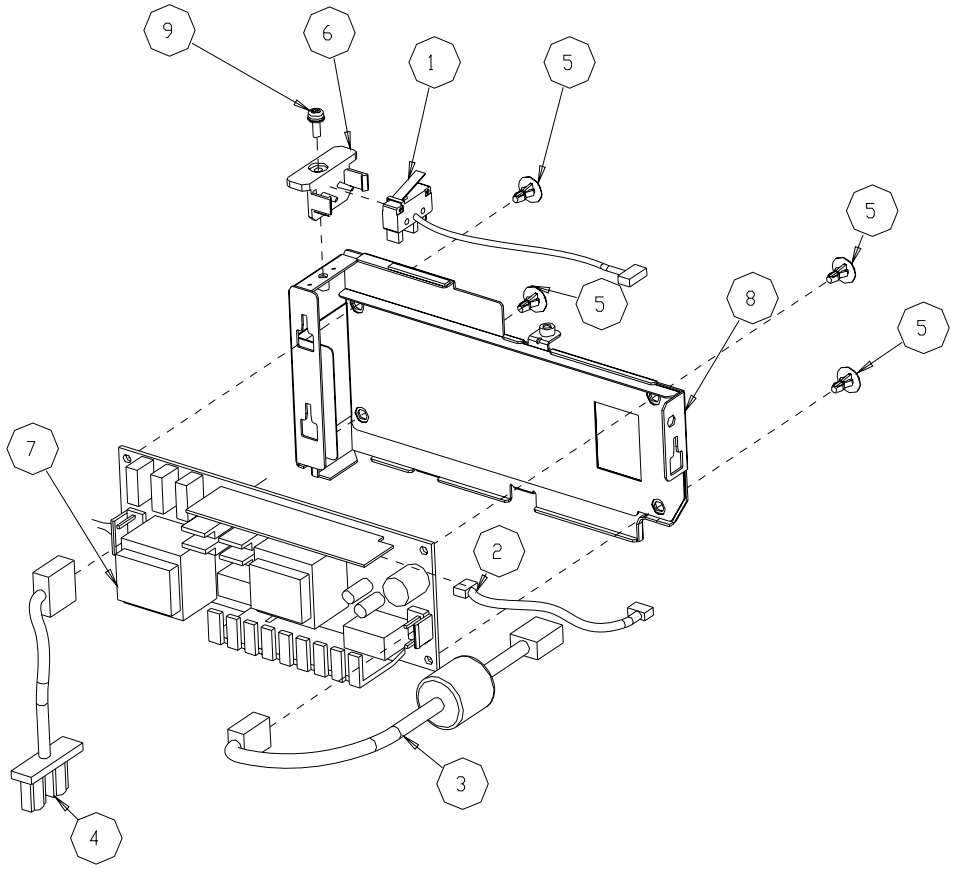
ASSY X19 LVPS MODULE EP761



Item	P/N	Description
1	42.00451G001	W.A. 16P 2100mm LVPS TO MAIN BD UL1007 EP752
2	75.87M01G001	ASSY LVPS MATRITEK 230W EP761

Note: Please refer to RSPL for updated part numbers.

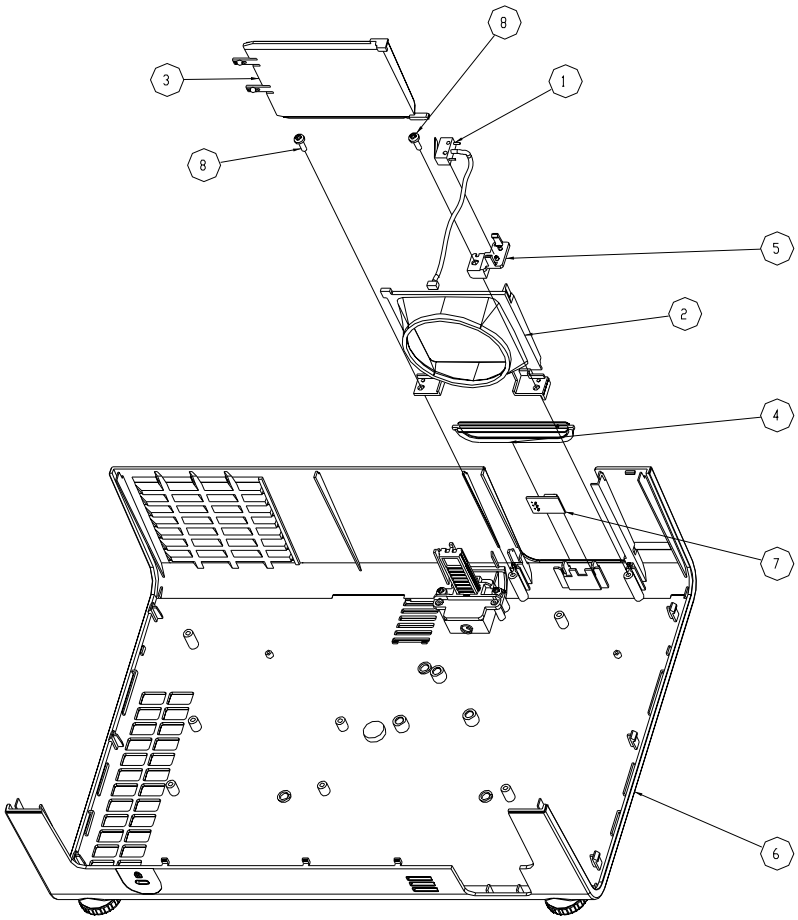
ASSY LAMP DRIVER OSRAM EP761



Item	P/N	Description
1	75.85S07G001	ASSY INTERRUPTER SWITCH HD70
2	42.00471G001	W.A. 5P #28 75MM BALLAST/MAIN BOARD EP761
3	42.83M06G001	W.A. 2P #20 180MM LVPS TO LAMP DRIVER 2400MP
4	42.85F01G001	CABLE W.A. 2P#22 160MM LAMP DRIVER TO LAMP EP1690
5	51.00138G001	SPACER SUPPORT SCK-3A
6	51.87K18G001	LIMIT SWITCH HOLDER EP752
7	75.87W01G001	ASSY PHILIPS LAMP DRIVER TopPremium VIDI 220W
8	75.87K03G001	ASSY LAMP DRIVER OSRAM BRK EP752
9	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

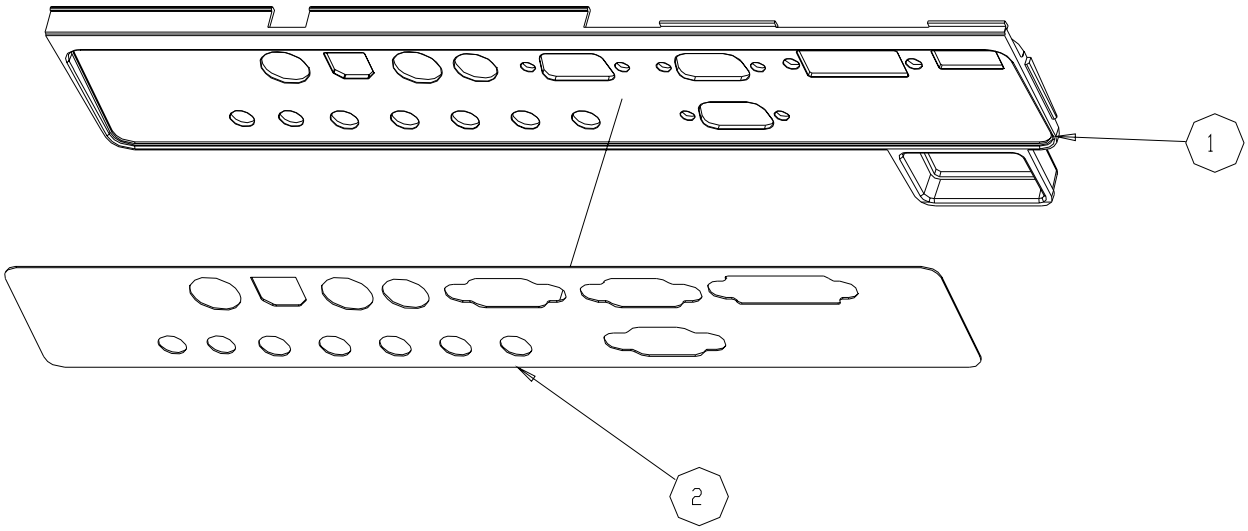
ASSY BOTTOM COVER EP761_EP763



Item	P/N	Description
1	75.87K02G001	ASSY INTERRUPT SWITCH MODULE EP752
2	51.87K13G001	LENS CASE WXGA EP752
3	51.87K14G001	LENS DOOR EP752
4	51.87K15G001	IR LENS FRONT EP752
5	51.87K17G001	LENS DOOR SWITCH HOLDER EP752
6	75.87M04G001	ASSY BOTTOM COVER EP761
7	80.87M05G001	PCBA IR SENSOR BD FOR EP761
8	85.WA123G080	Screw Pan Tap M3x8

Note: Please refer to RSPL for updated part numbers.

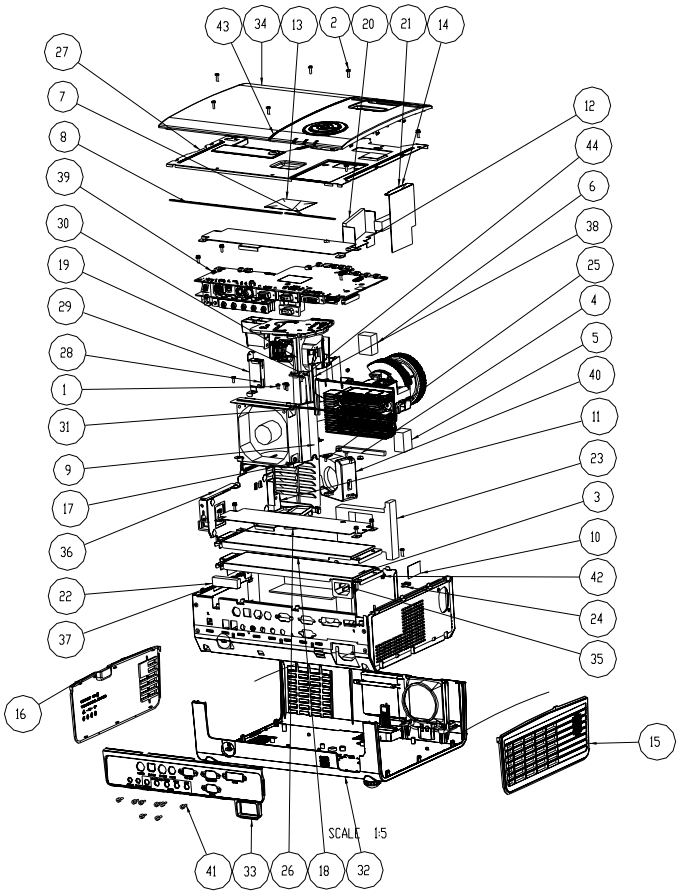
ASSY IO COVER EP761_EP763



Item	P/N	Description
1	51.87K19G011	IO COVER EP761
2	51.87M05G001	OVERLAY PC EP761

Note: Please refer to RSPL for updated part numbers.

D.C. EP763


43
34
13
2
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21
14
27
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39
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1
31
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37
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44
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38
25
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SCALE 1:5

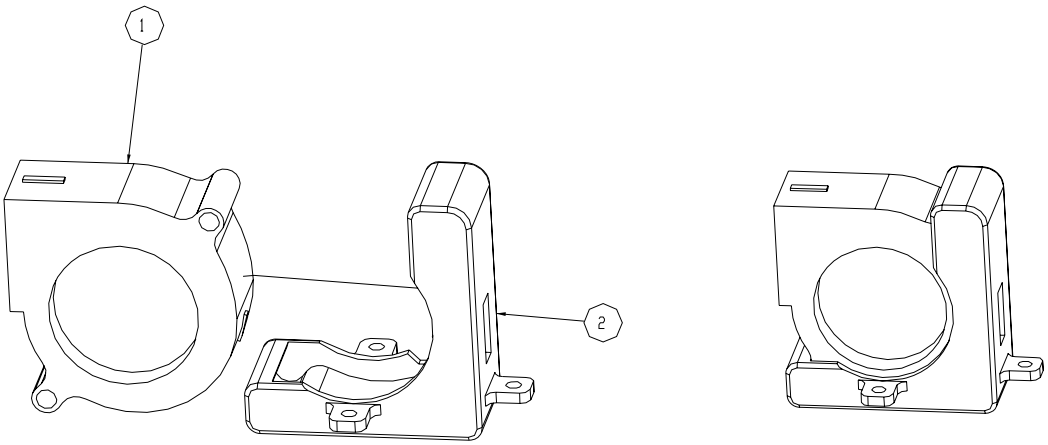
Item	P/N	Description
1	85.1A323G040	Screw Pan M3x4 Black
2	85.1A323G080	Screw Pan M3x8 Black
3	85.WA123G080	Screw Pan Tap M3x6
4	41.82H02G001	EMI GASKET W5*H5*L77
5	41.85A01G001	EMI GASKET / 10*27*20
6	41.87J01G001	EMI GASKET W15*H15*L15 mm
7	41.87M02G001	GASKET W3*H1*L80
8	41.87M05G001	GASKET W3*H1*L180
9	43.87S01G001	THERMAL SWITCH WITH BRACKET
10	51.81541G001	TAPE 3M J350 17*30mm
11	51.86V02G003	ENGINE MASK PLATE PPS X19
12	51.87J04G001	MYLAR FOR ZOOM RING
13	51.87J05G001	MYLAR FOR TOP SHIELDING EP752
14	51.87J11G001	87J-GUARD-LIGHT-LEAK-MYLAR
15	51.87K20G001	RIGHT COVER EP752
16	51.87K21G001	LEFT COVER EP752
17	51.87K23G001	INNER MASK EP752
18	51.87S01G001	MYLAR FOR LVPS EP763
19	52.86V11G001	BLOWER DUCT RUBBER PHILIPS 260
20	52.87J02G001	SPONGE FOR ZOOM RING EP752
21	52.87J03G001	87J-GUARD-LIGHT-LEAK-SPONGE
22	52.87J09G001	SPONGE FOR SLOT EP752
23	52.87S04G001	SPONGE TO CUT OFF EP763
24	61.00079G001	GROUNDING CABLE CLAMP FN-008
25	61.87340G001	STAND OFF M3*4L D8.0 2100MP
26	61.87H05G001	LVPS BRACKET 260W XD1171D
27	61.87K01G001	TOP SHIELDING EP752
28	61.87K05G001	HONEYCOMBED FIXED HOLDER EP752
29	61.87K06G001	PHOTOCATALYSIS HONEYCOMBED FOIL EP752

Note: Please refer to RSPL for updated part numbers.

Item	P/N	Description
30	70.86V28G001	ASSY LAMP MODULE PHILIPS-260W
31	70.87K05G001	ASSY FAN 8025 MODULE EP752
32	70.87M05G001	ASSY BOTTOM COVER EP761
33	70.87M06G001	ASSY IO COVER EP761
34	70.87M07G001	ASSY TOP COVER EP761
35	70.87S01G001	ASSY X19 LVPS MODULE EP763
36	70.87S02G001	ASSY LAMP DRIVER EP763
37	70.87S04G001	ASSY SYSTEM SUPPORT SHIELDING
38	70.87S05G001	ASSY TYPE X ENGINE MODULE EP761
39	70.87S06G001	ASSY MB PCBA EP763
40	70.87S07G001	ASSY BLOWER 5020 EP763
41	85.005AGG075	Hex I/O #4-40xH4xL7.5 Ni Nylok
42	85.1C224G051	SCREW PAN MECH M4*5 COLOR W/TO
43	85.1F123G080	Screw Pan Spg+Flt M3x8 Ni
44	85.WA123G060	Screw Pan Tap M3x5

Note: Please refer to RSPL for updated part numbers.

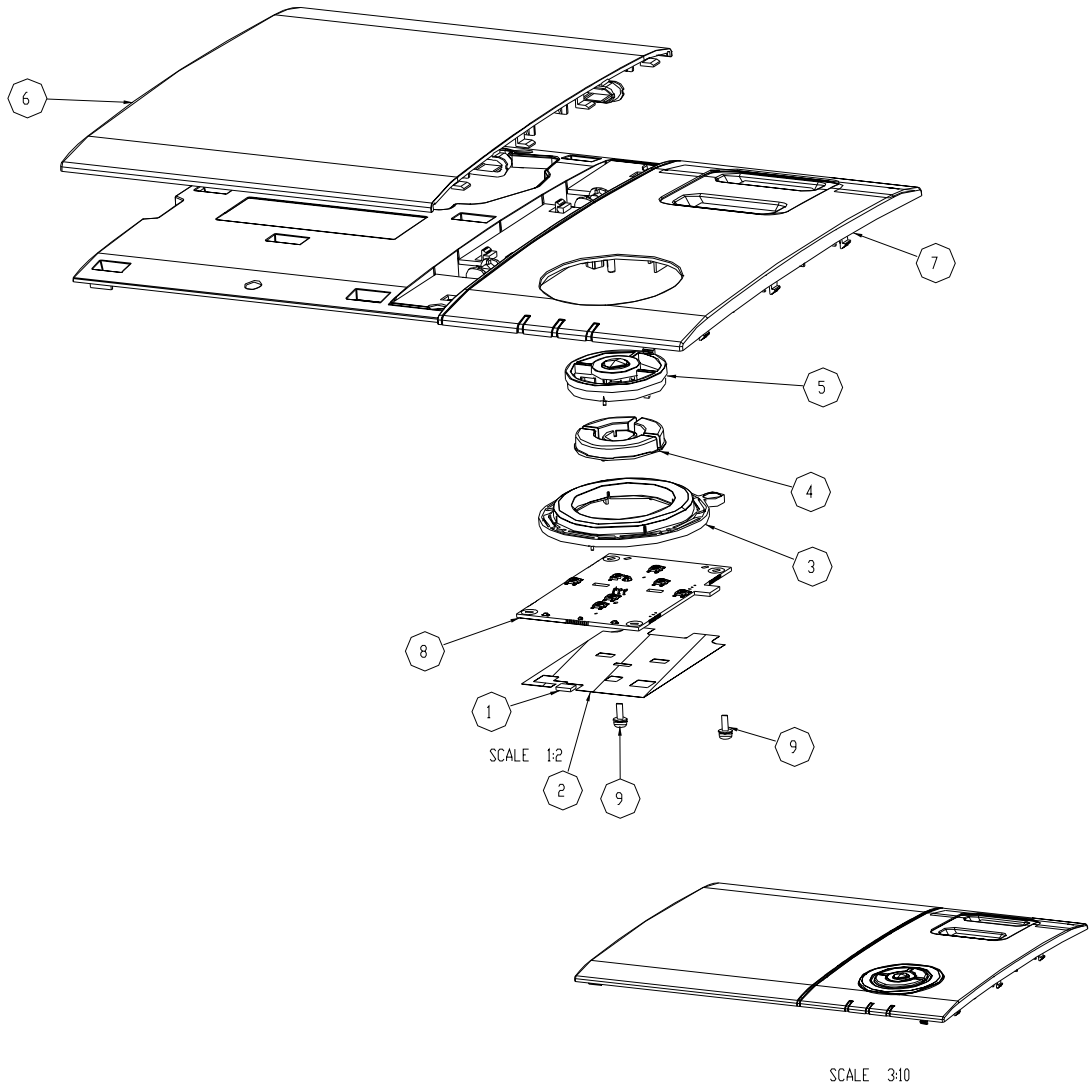
ASSY BLOWER 5020 EP763



Item	P/N	Description
1	49.83N02G001	SUNON, GB1205PKV4-AY, 50*50*20
2	52.87306G001	RUBBER BLOWER FAN FRAME 2100MP

Note: Please refer to RSPL for updated part numbers.

ASSY TOP COVER EP761_EP763

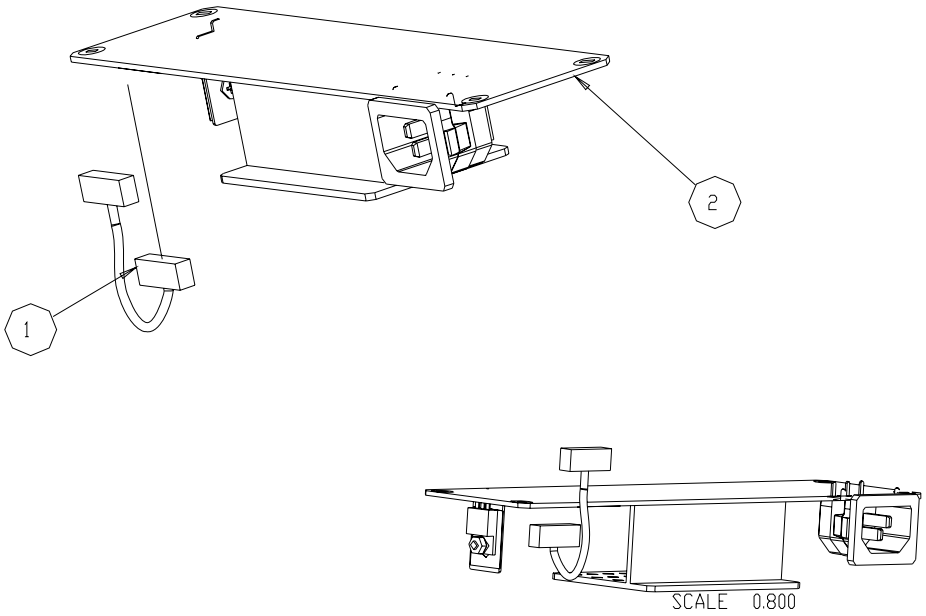


SCALE 3:10

Item	P/N	Description
1	41.83F22G001	GASKET W*5, H*1.5, L*7
2	51.87J06G001	MYLAR FOR KEYPAD BOARD
3	51.87K02G001	KEY BUTTON OUTER EP752
4	51.87K03G001	KEY BUTTON INNER EP752
5	51.87K04G001	IR LENS TOP EP752
6	51.87K22G011	LAMP COVER FOR EP761
7	75.87K04G001	ASSY TOP COVER EP752
8	80.87M03G002	PCBA KEYPAD BD1 ENTEK FOR EP761
9	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

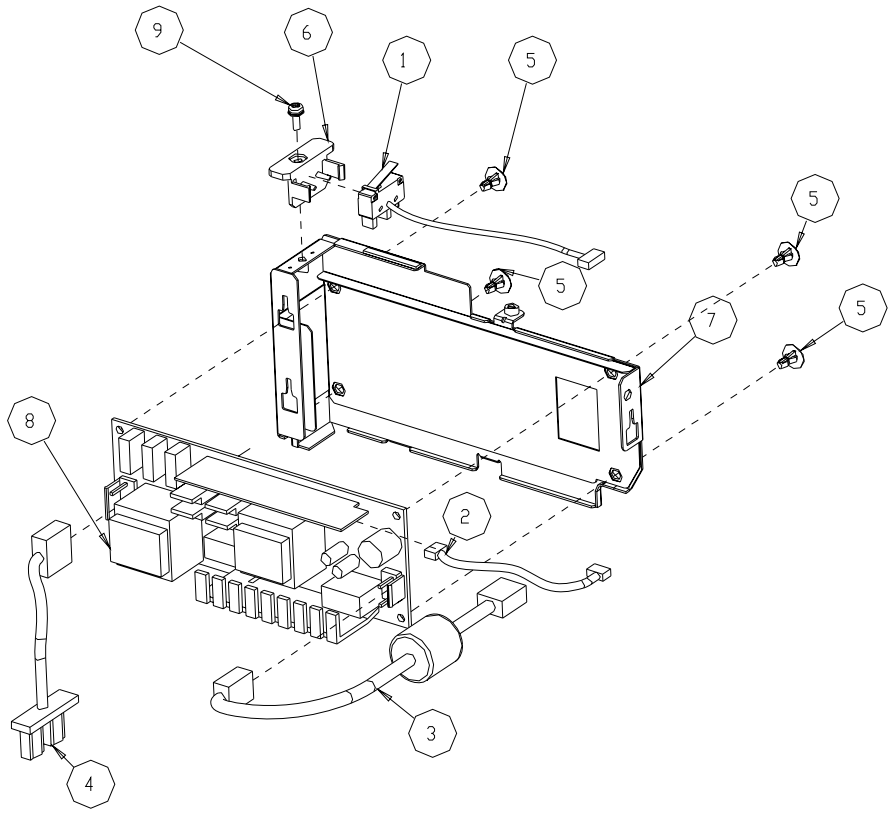
ASSY X19 LVPS MODULE EP763



Item	P/N	Description
1	42.00451G001	W.A. 16P 240mm LVPS TO MAIN BD
2	75.88A02G001	ASSY LITEON LVPS 260W XD1281

Note: Please refer to RSPL for updated part numbers.

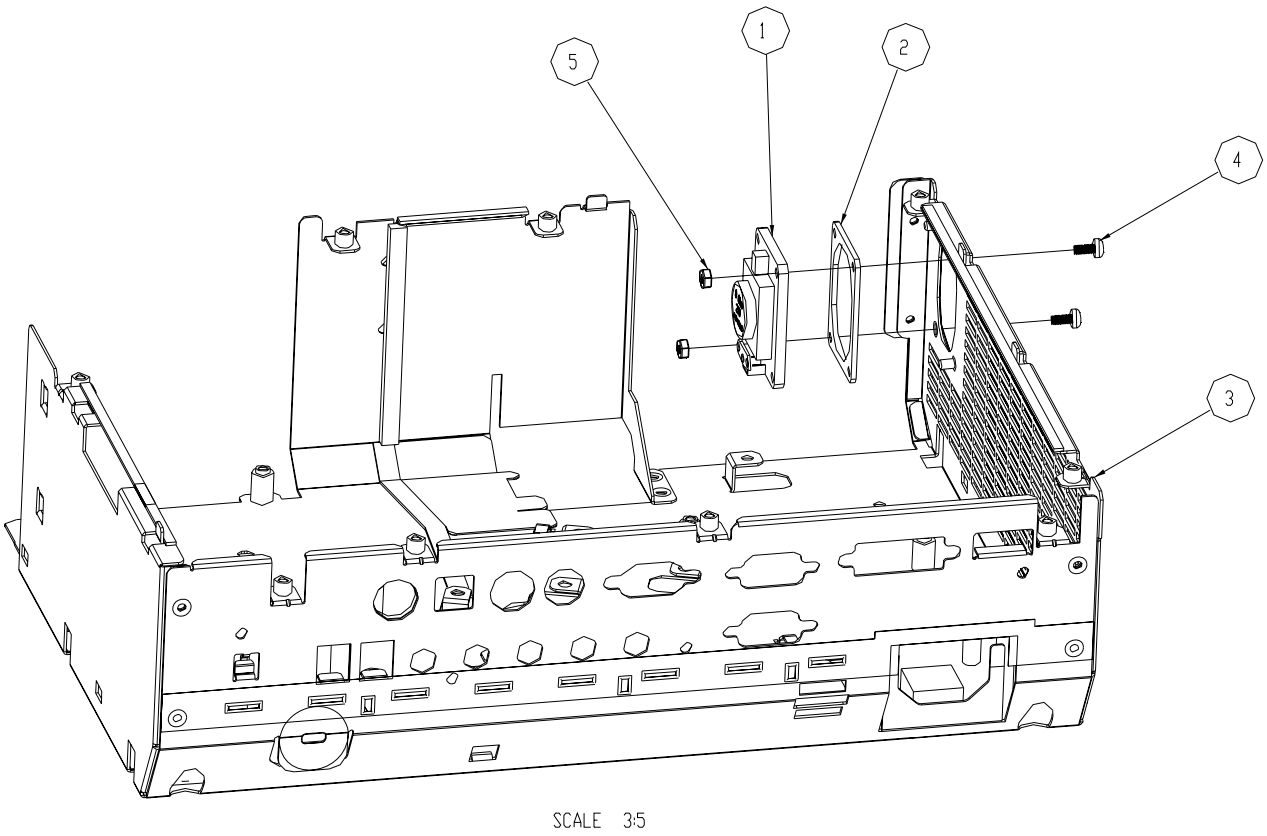
ASSY LAMP DRIVER EP763



Item	P/N	Description
1	75.87U02G001	ASSY INTERRUPTER SWITCH P5260
2	42.00471G001	W.A. 5P #28 75MM BALLAST/MAIN BOARD EP761
3	42.83M06G001	W.A. 2P #20 180MM LVPS TO LAMP DRIVER 2400MP
4	42.85F01G001	CABLE W.A. 2P#22 160MM LAMP DRIVER TO LAMP EP1690
5	51.00138G001	SPACER SUPPORT SCK-3A
6	51.87K18G001	LIMIT SWITCH HOLDER EP752
7	75.87K03G001	ASSY LAMP DRIVER OSRAM BRK EP752
8	75.87S01G001	ASSY PHILIPS 260W LAMPDRIVER EP763
9	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

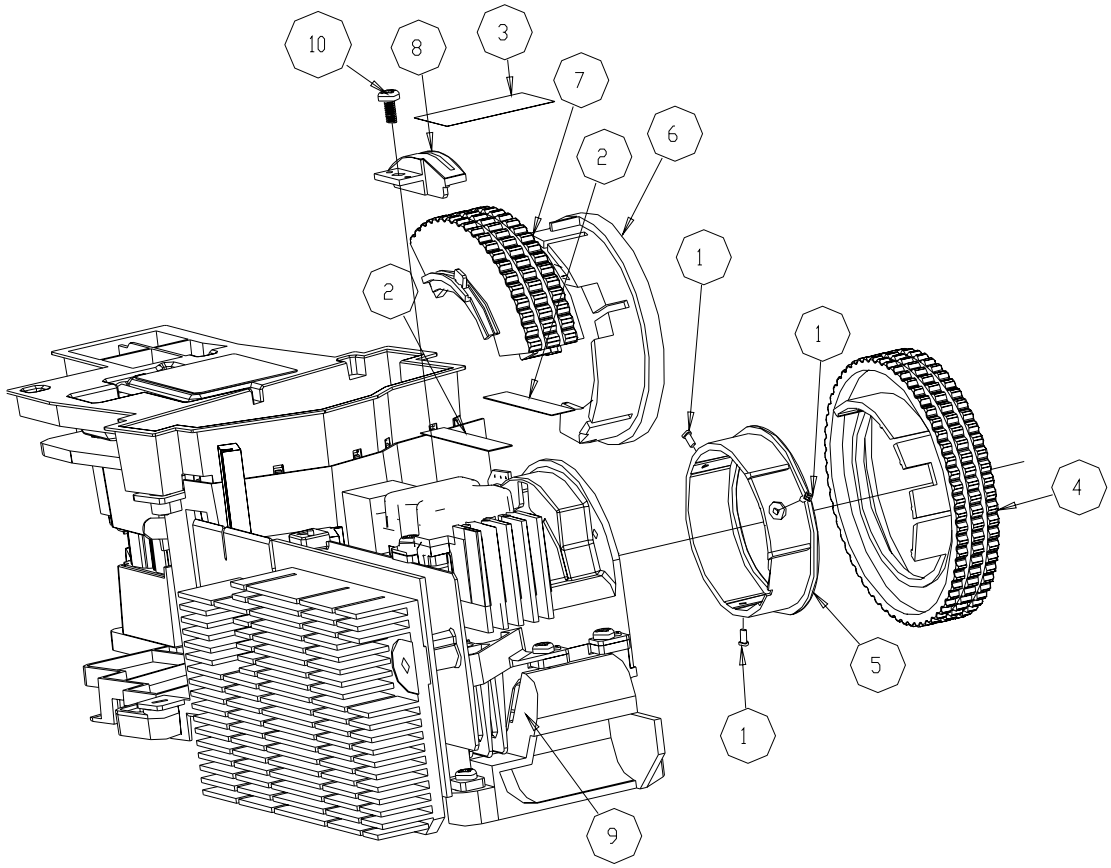
ASSY SYSTEM SUPPORT SHIELDING



Item	P/N	Description
1	49.87K01G001	SPEAKER 8ohm 2W Fai16 EP752
2	52.89608G001	SPEAKER SPONGE CR 2t EP759/PD7
3	75.87S02G002	ASSY SYSTEM SUPPORT SHIELDING
4	85.1A523G060	SCREW PAN MECH M3*6 NYLOK, GRE
5	86.0A123G024	HEX NUT M3*0.5P L2.4 Ni

Note: Please refer to RSPL for updated part numbers.

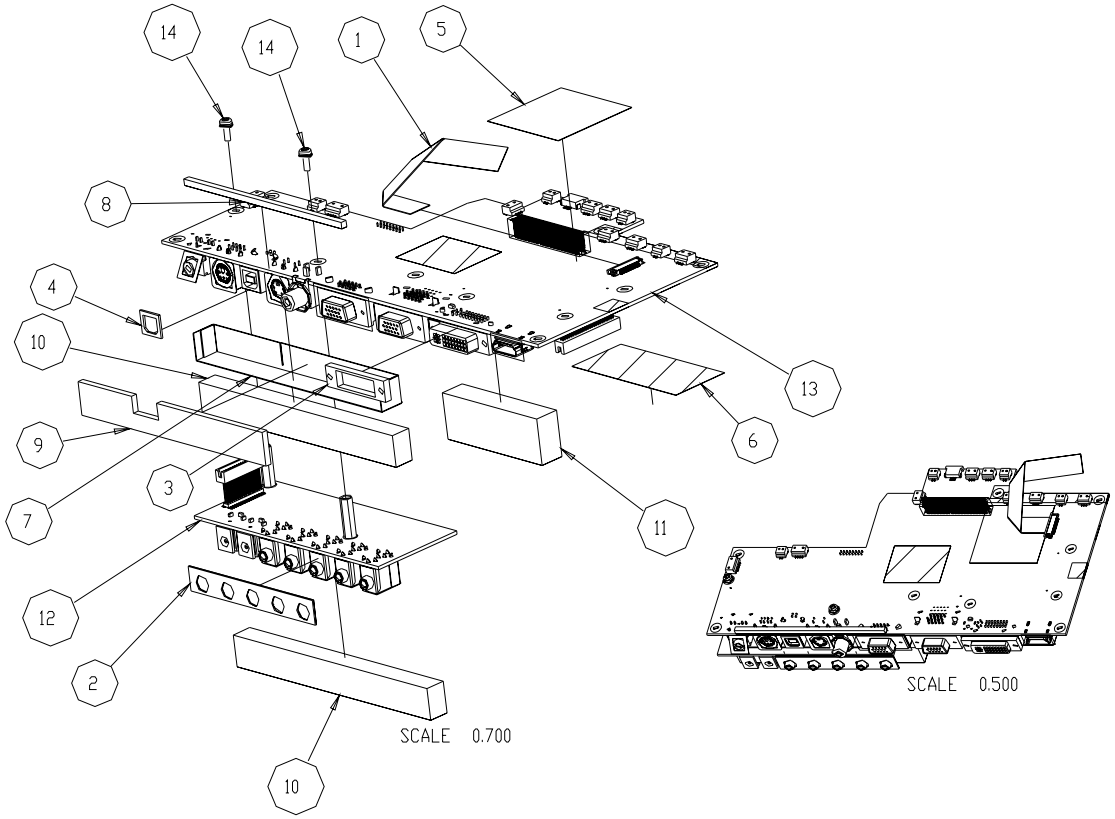
ASSY TYPE X ENGINE MODULE EP763



Item	P/N	Description
1	85.YA121G035	SCREW FLAT TAP 1 LEAD M1.7*3.5 CR+3
2	51.87J10G001	TEFLON FOR ZOOM RING EP752
3	51.87J12G001	87J-MIRROR-3M-TAPE
4	51.87K07G001	FOCUS RING EP752
5	51.87K08G001	FOCUS RING TRANSFER EP752
6	51.87K09G001	FOCUS RING FIXED HOLDER EP752
7	51.87K10G001	ZOOM RING EP752
8	51.87K11G001	ZOOM RING ORBIT EP752
9	70.86V13G001	ASSY ENGINE MODULE XGA 260W-2 X19
10	85.1A323G040	SCREW PAN MECH M3*4 BLACK

Note: Please refer to RSPL for updated part numbers.

ASSY MB PCBA EP763



Item	P/N	Description
1	42.00303G001	FFC KEYPAD TO M/B 24P P=0.5 120mm EP752
2	41.87M06G001	AUDIO PORT GASKET W12*H0.8*L79
3	41.87M07G001	DVI PORT GASKET H=0.35mm
4	41.87M07G001	I/O USB CONNECTOR GASKET W14*H
5	51.82Y26G001	TAPE 3M J1350 45*45MM FOR MIRROR 1 DP715
6	51.87J13G001	TAPE 3M 1350F 66*30mm
7	51.87K32G001	MYLAR FOR MB
8	52.87J05G001	SPONGE FOR PCBA EP752
9	52.87J06G001	SPONGE BETWEEN CNNT AND MYLAR EP752
10	52.87J07G001	SPONGE FOR AUDIO BOARD EP752
11	52.87J08G001	SPONGE FOR SVGA EP752
12	70.87M08G001	ASSY AUDIO BD EP761
13	80.87S01G001	PCBA MAIN BD ENTEK FOR EP763
14	85.1F123G080	SCREW PAN MECH W/SF M3*8 NI GREEN

Note: Please refer to RSPL for updated part numbers.

Appendix B

I. Serial Number System Definition

Serial Number Format for Projector

Q XXX X XX XXXXXX XXXX

① ② ③ ④ ⑤ ⑥ ⑦

① : Q = Customer Code (ex: Q = Optoma)

② : Product Code (ex: 87M = EP761, 87J = EP752, 87S = EP763)

③ : Year (ex: 6 = 2006, 7 = 2007)

④ : Week of MFG

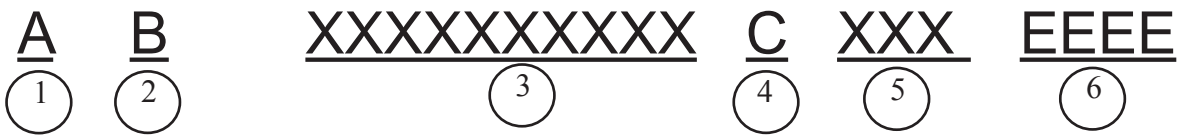
⑤ : Code

⑥ : MFG Location (ex: C = China)

⑦ : Serial code (from 0001~)

II. PCBA Code Definition

PCBA Code for Projector



1	:	ID
2	:	Vendor Code
3	:	P/N
4	:	Revision
5	:	Date Code
6	:	S/N

C: M/B
B: DMD/ B

Reader's Response

Dear Readers:

Thank you for your backing our service manual up. In order to refine our content of the service manual and satisfy your requirement. We expect you can offer us some precious opinions for reference.

Assessment:

A. What do you think about the content after reading EP752_EP761_EP763 Service Manual?

Unit	Excellent	Good	Fair	Bad
1. Introduction				
2. Disasaembly Procedure				
3. Troubleshooting				
4. Function Test & Alignment Procedure				
5. Firmware Upgrade Procedure				
6. EDID				
7. Appendix				

B. Are you satisfied with the EP752_EP761_EP763 service manual?

Item	Excellent	Good	Fair	Bad
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinion or suggestion about this service manual?

Reader's basic data:

Name:			Tile:	
Company:				
Add:				
Tel:			Fax:	
E-mail:				

After your finishing this form, please send it back to Coretronic Customer Service Dept. by fax: 886-3-563-5333.